

LAND APPLICATION SITE

EDWIN T. UPSHAW III

CRETU 1 – 20

CAROLINE COUNTY

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 6-6-19 between Edwin T. Upshaw III referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Caroline Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-1-B</u>			
<u>88-A-3,4,5,10</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Edwin T. Upshaw III</u>	Mailing Address <u>2333 Bagby Rd, Bowling Green, Va. 22427</u>	Landowner Signature <u>Edwin T Upshaw III</u>
By: <u>Owner</u>	Phone No. <u>804-633-5803</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Edwin T. Upshaw III

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:
 - a. Following biosolids application to pasture or hayland sites:
 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Edwin T Upshaw III

Landowner's Signature

6-6-19

Date

Edwin T Upshaw III

Operator's Signature

2333 Bagby Road
Bowling Green, Va, 22427
tel 804-513-4102

mailing address & phone

6-6-19

Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 6-6-19 between Katherine H. Upshaw referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Caroline Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-1-B</u>			
<u>88-A-10</u>			
<u>88-A-5</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name, <u>Katherine H. Upshaw</u>	Mailing Address <u>2333 Bagby Rd.</u> <u>Bowling Green, Va. 22427</u>	Landowner Signature <u>Katherine Upshaw</u>
By: <u>Dw ner</u>	Phone No. <u>804-633-5803</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Katherine H. Upshaw

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days;
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Katherine Upshaw
Landowner's Signature

6-6-19
Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 6-6-19 between Edwin T. Upshaw III ^{Trustee} referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Caroline Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-A-64</u>	<u>88-A-18, 49</u>		
<u>88-A-65</u>	<u>99-A-17</u>		

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Edwin T. Upshaw III Tr.</u>	Mailing Address <u>2333 Bagby Rd.</u> <u>Bowling Green, Va. 22427</u>	Landowner Signature <u>Edwin T Upshaw III</u>
By: Title* <u>Trustee</u>	Phone No. <u>804-633-5803</u>	
<input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, <u>Trustee</u> or Power of attorney, etc. <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name Susan Trumbo	Mailing Address PO Box 562, Remington Virginia 22734	Permittee- Authorized Representative Signature <u>[Signature]</u>
Title Technical Manager	Phone No. 540-547-3300	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Edwin T. Upshaw III Tr.

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. **Notification Signs:** I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. **Public Access**
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. **Crop Restrictions:**
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. **Livestock Access Restrictions:**

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Edwin T. Upshaw III

Landowner's Signature

6-6-19

Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 6-5-19 between Sally W. Upshaw TR referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Caroline Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>99-A-17</u>			
<u>89-A-18</u>			
<u>88-A-49</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Sally W. Upshaw TR</u>	Mailing Address <u>25249 Mattaponi Trail</u>	Landowner Signature <u>Sally W. Upshaw, Trustee</u> <u>Sherrie A. Upshaw, POA</u>
By: <u>Sherrie A. Upshaw POA</u>	<u>Gether 22514</u>	
Title* <u>Trustee / POA</u>	Phone No. <u>804-633-5514</u>	
<input checked="" type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
<input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Sally W. Upshaw Tr.

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil.
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
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Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Sally W. Upshaw Trustee
Sherie A. Upshaw, POA
Landowner's Signature

6-5-19

Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 6-5-19 between Carl D. Upshaw Jr. referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Caroline Co., Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-A-67,66,66C</u>			
<u>88-A-34,57,8,10</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☒ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.


In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.


Class B biosolids Water treatment residuals Food processing waste Other industrial sludges
☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No ☒ Yes ☐ No

Printed name <u>Carl D. Upshaw Jr.</u>	Mailing Address <u>23035 Bagby Road</u> <u>Bowling Green, Va. 22427</u>	Landowner Signature 
By: <u>Carl D. Upshaw Jr.</u>	Phone No. <u>804-633-5510</u>	
Title* <u>Owner</u>		
* <input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
* <input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature 
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Carl D. Upshaw, Jr.

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. **Notification Signs:** I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. **Public Access**
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. **Crop Restrictions:**
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. **Livestock Access Restrictions:**

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days,
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Carl D. Upshaw Jr
Landowner's Signature

6/5/19
Date

Carl D. Upshaw
Operator's Signature

23035 Bagby Rd
mailing address & phone

Bowling Green Va 22427

6/5/19
Date

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 5-13-20 between Edwin T. Ushaw IV referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Caroline Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
88-A-55			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Edwin T. Ushaw IV</u>	Mailing Address <u>12660 Hazel River Rd</u>	Landowner Signature <u>Edwin T. Ushaw IV</u>
By: <u>Owner</u>	<u>Rixeyville VA 22737</u>	
Title* <u>Owner</u>	Phone No. <u>(804) 370-3107</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
<input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc. the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature <u>[Signature]</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co

Landowner: Edwin T. Upshaw IV

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.
2. Public Access
 - a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
 - b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
 - c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.
3. Crop Restrictions:
 - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
 - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil;
 - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
 - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
 - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).
4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

 - a. Meat producing livestock shall not be grazed for 30 days;
 - b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Edwin T. Upshaw IV
Landowner's Signature

5-13-20
Date

Edwin T. Upshaw IV
Operator's Signature

23333 Bayby Rd
mailing address & phone

5-13-20
Date

Bowling Green VA 22427
804-370-3107

**VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS**

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 5-14-20 between Natalie R. Upshaw referred to here as "Landowner", and Recyc Systems, Inc. referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:

The Landowner is the owner of record of the real property located in Caroline Co. Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) with county documentation identifying owners, attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges			
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
<u>88-A-55</u>			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☒ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

<u>Class B biosolids</u>	<u>Water treatment residuals</u>	<u>Food processing waste</u>	<u>Other industrial sludges</u>
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Printed name <u>Natalie R. Upshaw</u>	Mailing Address <u>12660 Hazel River Rd</u> <u>Rixeyville VA 22737</u>	Landowner Signature <u>Natalie R. Upshaw</u>
By: Title* <u>Owner</u>	Phone No. <u>540 937 0102</u>	
<input type="checkbox"/> I certify that I have authority to sign for the landowner as indicated by my title as executor, Trustee or Power of attorney, etc.		
<input type="checkbox"/> I certify that I am a responsible official [or officer] authorized to act on behalf of the following corporation, partnership, proprietorship, LLC, municipality, state or federal agency, etc.		

Permittee:

Recyc Systems, Inc., the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

Printed name <u>Susan Trumbo</u>	Mailing Address <u>PO Box 562, Remington Virginia 22734</u>	Permittee- Authorized Representative Signature <u>S. Trumbo</u>
Title <u>Technical Manager</u>	Phone No. <u>540-547-3300</u>	

Permittee: Recyc Systems, Inc

County or City: Caroline Co.

Landowner: Natalie R. Upshaw

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

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 - c. Other animals shall be restricted from grazing for 30 days;
5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Natalie R. Upshaw
Landowner's Signature

5/14/20
Date

Operator's Signature

mailing address & phone

Date

[illegible]

FARM DATA SHEET

SITE NAME:	Edwin T. Upshaw III	COUNTY:	Caroline
OWNER:	See List Below	OPERATOR:	Edwin T. Upshaw III
OWNER'S ADDRESS:	See List Below	OPERATOR'S ADDRESS:	2333 Bagby Road Bowling Green, VA 22427
OWNER'S TELEPHONE:	See List Below	OPERATOR'S TELEPHONE:	804-633-5803
GENERAL FARM TYPE:	Row Crops Pasture/ Hay	CELL PHONE:	804-513-4102
# CATTLE:	40	EMAIL:	-
LAGOON or SLURRY:	N/A	LATITUDE:	F 1-5 37.946 F 6—14 37.938 F 15-16 37.925 F 17-20 37.917
TOPO QUAD:	Sparta	LONGITUDE:	F 1-5 -77.238 F 6—14 -77.226 F 15-16 -77.211 F 17-20 -77.204
COMMENTS:	METHOD OF DETERMINATION: Online Maps		
Edwin T. Upshaw III and Katherine H. Upshaw 2333 Bagby Road Bowling Green, VA 22427 804-513-4102		Carl D. Upshaw, Jr. 23035 Bagby Road Bowling Green, VA 22427 804-633-5510	
Sally W. Upshaw 25249 Mattaponi Trail Gether, VA 22514 804-633-5514			
Edwin T. Upshaw IV and Natalie R. Upshaw 12660 Hazel River Road Rixeyville, VA 22737 804-370-3107			

**Field Changes
Edwin T Upshaw III
Caroline County**

fields prior in Carl D Upshaw Jr Site Book

New Field	Old Field
CRETU-01	CDU-04
CRETU-02	CDU-03
CRETU-03	CDU-03
CRETU-04	CDU-02
CRETU-05	CDU-04
CRETU-06	CDU-27
CRETU-07	CDU-21
CRETU-08	CDU-20
CRETU-09	CDU-17
CRETU-10	CDU-21
CRETU-11	CDU-21
CRETU-12	CDU-22
CRETU-13	CDU-22
CRETU-14	CDU-22
CRETU-15	CDU-24
CRETU-16	CDU-24
CRETU-17	CDU-25
CRETU-18	CDU-26
CRETU-19	CDU-25
CRETU-20	CDU-25

RECYC SYSTEMS, INC

FIELD DATA SHEET

Field Identification	DEQ Control ID	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
			Water Table	Bed Rock/ Shallow	Surfi/ Leach	Freq Flood			
CRETU 1	51033-00198-0000	27.2	-	-	-	-	YO 53	88-A-3	T 3774 F 1
CRETU 2	51033-00197-0000	15.6	-	-	-	-	YO 53	88-A-3	T 3774 F 2
CRETU 3	51033-00197-0000	6.3	-	-	-	-	YO 53	88-A-3	T 3774 F 3
CRETU 4	51033-00196-0000	15.7	-	-	-	-	YO 53	88-A-3	T 3774 F 4
CRETU 5	51033-00198-0000	3.6	-	-	-	-	YO 53	88-A-3	T 3774 F 5
CRETU 6	51033-00221-0000	10.4	-	-	-	-	YO 53	88-A-10	T 3459 F 1
CRETU 7	51033-00466-0000	5.3	-	-	-	-	YO 53	88-1-B	T 3590 F 12
CRETU 8	51033-00202-0000	21.4	-	-	-	-	YO 53	88-A-65 88-A-66	T 3590 F 11
CRETU 9	51033-00203-0000	8.0	-	-	-	-	YO 53	88-A-65 88-A-66	T 3590 F 18
CRETU 10	51033-00466-0000	23.8	-	-	-	-	YO 53	88-A-65	T 3590 F 12

6-26-19

CRETU 11	51033-00466-0000	15.3	-	-	-	-	-	YO 53	88-A-64 88-A-65	T 3590 F 13
CRETU 12	51033-00216-0000	18.6	-	-	-	-	-	YO 53	88-A-64	T 3590 F 14
CRETU 13	51033-00216-0000	7.7	-	-	-	-	-	YO 53	88-A-64	T 3590 F 15
CRETU 14	51033-00216-0000	4.4	1B Dec.-Apr.	-	-	-	-	YO 53	88-A-64	T 3590 F 16
CRETU 15	51033-00218-0000	13.7	-	-	-	-	-	YO 53	88-A-55	T 3702 F 1
CRETU 16	51033-00218-0000	14.0	-	-	-	-	-	YO 53	88-A-55	T 3702 F 2
CRETU 17	51033-00219-0000	4.0	-	-	-	-	-	YO 53	88-A-49	T 392 F 2
CRETU 18	51033-00220-0000	9.6	-	-	-	-	-	YO 53	88-A-49 89-A-18	T 392 F 1
CRETU 19	51033-00219-0000	56.5	-	-	-	-	-	YO 53	88-A-49 89-A-18 99-A-17	T 392 F 3
CRETU 20	51033-00219-0000	1.5	-	-	-	-	-	YO 53	88-A-49	T 392 F 4
TOTAL ACRES IN SITE		282.6								

6-26-19

Report Number: 19-015-0661

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23137
Main 804-743-9401 • Fax 804-271-6446
www.waypointanalytical.com

Send To: Recyc Systems Inc
Susan Trumbo
8455 Whiteshop Road
Culpepper VA 22701

"Every acre...Every year."™

Grower: Carl Upshaw

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

SOIL ANALYSIS REPORT

Date Received: 01/15/2019

Date Of Analysis: 01/16/2019

Date Of Report: 01/16/2019

Sample ID Field ID	Lab Number	OM %	W/V Soil Class	ENR lbs/A	Phosphorus			Potassium K ppm Rate	Magnesium Mg ppm Rate	Calcium Ca ppm Rate	Sodium Na ppm Rate	pH		Acidity H meq/100g	C.E.C meq/100g
					M3 ppm Rate	ppm	Rate					Soil pH	Buffer Index		
4A <div>1,5</div>	21595	2.9 M		101	104 VH		78 M	56 L	649 M	6.1	5.8	6.84	0.9	4.8	
4B <div>1,5</div>	21596	2.2 L		89	53 H		75 M	26 VL	587 H		6.4	6.90	0.3	3.6	
4C	21597	2.9 M		101	32 M		51 VL	41 L	820 H		6.3	6.88	0.5	5.1	
4D	21598	2.6 M		93	123 VH		50 VL	55 L	1069 VH		6.7		0.3	6.2	
4E	21599	2.6 M		95	79 H		109 H	34 VL	736 H		6.0	6.85	0.8	5.0	

Sample ID Field ID	Percent Base Saturation				Nitrate NO ₃ N ppm Rate	Sulfur S ppm Rate	Zinc Zn ppm Rate	Manganese Mn ppm Rate	Iron Fe ppm Rate	Copper Cu ppm Rate	Boron B ppm Rate	Soluble Salts	
	K %	Mg %	Ca %	Na %								SS ms/cm	Rate
4A	4.2	9.7	67.6		18.8		6.3 H	19 M					
4B	5.3	6.0	81.5		8.3		3.4 M	27 H					
5	2.6	6.7	80.4		9.8		2.2 L	15 M					
8	2.1	7.4	86.2		4.8		4.2 H	13 M					
12	5.6	5.7	73.6		16.0		3.8 H	13 M					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Pauric McGroarty*

Pauric McGroarty

Report Number: 19-116-0684

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237
Main 804-743-9401 • Fax 804-271-6446
www.waypointanalytical.com

Send To: Recyc Systems Inc
Susan Trumbo
8455 Whiteshop Road
Culpepper VA 22701

"Every acre...Every year."™

Grower: Carl Upshaw
Caroline Co

Analytical Method(s): SMP Buffer pH Mehlich 3 Loss On Ignition Water pH

SOIL ANALYSIS REPORT

Date Of Report: 04/29/2019

Date Of Analysis: 04/29/2019

Date Received: 04/26/2019

Sample ID Field ID	Lab Number	OM %	W/V Soil Class	Phosphorus			Potassium K	Magnesium Mg	Calcium Ca	Sodium Na	pH		Acidity H	C.E.C
				M3 ppm	Rate	ppm					Soil pH	Buffer Index		
27	07515	3.6		49	M		55	L	655	H	6.1	6.87	0.6	4.6

Sample ID Field ID	Percent Base Saturation				Nitrate		Sulfur S	Zinc Zn	Manganese		Iron Fe	Copper		Soluble Salts	
	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm			ppm	Rate		Cu ppm	Rate	B ppm	SS ms/cm
27	3.1	13.6	71.2		13.0			3.6	H	17	M				

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-nitros per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: *Pauric McGroary*

Pauric McGroary

Date Received: 04/26/2019

Date Of Report: 04/29/2019

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P ₂ O ₅ lb/A	Potash K ₂ O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
27	Adjust pH to 6.5	0	1.0				0			2			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2019-Winter, 2021)
Edwin T. Upshaw III
Planner: John Doe

Tract: 392 Location: Caroline
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - apld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
2/CRETU 17(N)	4/4	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
1/CRETU 18(N)	10/10	2019	Grass Pasture	50-30-40	0/0				50-30-40	N/A		
3/CRETU 19(N)	57/57	2019	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
		2020										
4/CRETU 20(N)	2/2	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3459 Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
1/CRETU 6(N)	10/10	2019 2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3590 Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
12/CRETU 7(N)	5/5	2019	Fescue grass hay mt.	70-50-95	0/0				70-50-95	N/A		
11/CRETU 8(N)	21/21	2019	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
		2020										
18/CRETU 9(N)	8/8	2019	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
		2020										
12/CRETU 10(N)	24/24	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
		2020										
13/CRETU 11(N)	15/15	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
		2020										
14/CRETU 12(N)	19/19	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
		2020										
15/CRETU 13(N)	8/8	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
		2020										
16/CRETU 14(N)	4/4	2019	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
		2020										

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3702 Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
1/CRETU 15(N)	14/14	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
2/CRETU 16(N)	14/14	2019 2020	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3774 Location: Caroline

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes
1/CRETU 1(N)	27/27	2019 2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		
2/CRETU 2(N)	16/16	2019	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
3/CRETU 3(N)	6/6	2019	Grass Pasture	50-80-80	0/0				50-80-80	N/A		
4/CRETU 4(N)	16/16	2019	Wheat (grain)	100-60-60	20/0				80-60-60	N/A		
		2020										
5/CRETU 5(N)	4/4	2019 2020	Wheat (grain)	100-60-60	0/0				100-60-60	N/A		

Commercial Application Methods:

br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
392	CRETU 17	4	[No Test]						
392	CRETU 18	10	[No Test]						
392	CRETU 19	57	[No Test]						
392	CRETU 20	2	[No Test]						
3459	CRETU 6	10	[No Test]						
3590	CRETU 7	5	[No Test]						
3590	CRETU 8	21	[No Test]						
3590	CRETU 9	8	[No Test]						
3590	CRETU 10	24	[No Test]						
3590	CRETU 11	15	[No Test]						
3590	CRETU 12	19	[No Test]						
3590	CRETU 13	8	[No Test]						
3590	CRETU 14	4	[No Test]						
3702	CRETU 15	14	[No Test]						
3702	CRETU 16	14	[No Test]						
3774	CRETU 1	27	[No Test]						
3774	CRETU 2	16	[No Test]						
3774	CRETU 3	6	[No Test]						

3774	CRETU 4	16	[No Test]
3774	CRETU 5	4	[No Test]

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
392	392/2	CRETU 17	4	Kempsville	IIa	II	Not Suited	III	
	392/1	CRETU 18	10	Kempsville	IIa	II	Not Suited	III	
	392/3	CRETU 19	57	Kempsville	IIa	II	Not Suited	III	
	392/4	CRETU 20	2	Kempsville	IIa	II	Not Suited	II	
3459 3590	3459/1	CRETU 6	10	Slagle	IIb	I	III	I	
	3590/12	CRETU 7	5	Kempsville	IIa	II	Not Suited	III	
	3590/11	CRETU 8	21	Kempsville	IIa	II	Not Suited	III	
	3590/18	CRETU 9	8	Kempsville	IIa	II	Not Suited	III	
	3590/12	CRETU 10	24	Kempsville	IIa	II	Not Suited	III	
	3590/13	CRETU 11	15	Bama	IIa	II	III	II	
	3590/14	CRETU 12	19	Kempsville	IIa	II	Not Suited	II	
	3590/15	CRETU 13	8	Kempsville	IIa	II	Not Suited	II	
	3590/16	CRETU 14	4	Altavista	IIa	I	III	II	
	3702/1	CRETU 15	14	Kempsville	IIa	II	Not Suited	II	
	3702/2	CRETU 16	14	Kempsville	IIa	II	Not Suited	III	
							Suited		
3774	3774/1	CRETU 1	27	Kempsville	IIa	II	Not Suited	III	
	3774/2	CRETU 2	16	Kempsville	IIa	II	III	II	
	3774/3	CRETU 3	6	Slagle	IIa	II	III	II	
	3774/4	CRETU 4	16	Kempsville	IIa	II	Not Suited	III	
	3774/5	CRETU 5	4	Kempsville	IIa	II	Suited Not Suited	II	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Fall, 2019 - Winter, 2021

Farm Name: Edwin T. Upshaw III
Location: Caroline
Specialist: John Doe
N-based Acres: 282.6
P-based Acres: 0.0

Tract Name: 392
FSA Number: 392
Location: Caroline

Field Name: CRETU 17
Total Acres: 4.00 Usable Acres: 4.00
FSA Number: 2
Tract: 392
Location: Caroline
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:
PERCENT PERCENT SYMBOL SOIL SERIES
13 11A Emporia Kempsville
87 11B Emporia Kempsville

Field Warnings:

Field Name: CRETU 18
Total Acres: 9.60 Usable Acres: 9.60
FSA Number: 1
Tract: 392
Location: Caroline
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
28	10E	Emporia Kempsville Remlik
18	11A	Emporia Kempsville
46	11B	Emporia Kempsville
9	21C	Kempsville Slagle

Field Warnings:

Field Name: CRETU 19
Total Acres: 56.50 Usable Acres: 56.50
FSA Number: 3
Tract: 392
Location: Caroline
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P
[NO TEST]

Lab

Soils:

PERCENT	SYMBOL	SOIL SERIES
4	3B	Bama
6	10E	Emporia Kempsville Remlik
6	11A	Emporia Kempsville
85	11B	Emporia Kempsville

Field Warnings:

Field Name: CRETU 20

Total Acres: 1.50 Usable Acres: 1.50

FSA Number: 4

Tract: 392

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P

Lab

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
77	11B	Emporia Kempsville
23	21C	Kempsville Slagle

Field Warnings:

Tract Name: 3459
FSA Number: 3459
Location: Caroline

Field Name: CRETU 6
Total Acres: 10.40 **Usable Acres:** 10.40
FSA Number: 1
Tract: 3459
Location: Caroline
Slope Class: B **Hydrologic Group:** C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE **PH** **P** **K** **Lab**
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
7	21C	Kempsville Slagle
3	11B	Emporia Kempsville
90	22B	Slagle

Field Warnings:

Tract Name: 3590
FSA Number: 3590
Location: Caroline

Field Name: CRETU 7
Total Acres: 5.30 Usable Acres: 5.30
FSA Number: 12
Tract: 3590
Location: Caroline
Slope Class: B **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
10	10E	Emporia Kempsville Remlik
44	11A	Emporia Kempsville
45	11B	Emporia Kempsville

Field Warnings:

Field Name: CRETU 8
Total Acres: 21.40 Usable Acres: 21.40
FSA Number: 11

Tract: 3590
Location: Caroline
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
4	10E	Emporia Kempsville Remlik
73	11A	Emporia Kempsville
20	11B	Emporia Kempsville
3	21C	Kempsville Slagle

Field Warnings:

Field Name: CRETU 9
Total Acres: 8.00 Usable Acres: 8.00
FSA Number: 18
Tract: 3590
Location: Caroline
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
18	21C	Kempsville Slagle
24	10E	Emporia Kempsville Remlik
57	11B	Emporia Kempsville

Field Warnings:

Field Name: **CRETU 10**
Total Acres: 23.80 Usable Acres: 23.80
FSA Number: 12
Tract: 3590
Location: Caroline
Slope Class: * B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	10E	Emporia Kempsville Remlik
80	11B	Emporia Kempsville
19	11C	Emporia Kempsville

Field Warnings:

Field Name: CRETU 11
Total Acres: 15.30 Usable Acres: 15.30
FSA Number: 13
Tract: 3590
Location: Caroline
Slope Class: B **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
20	11C	Emporia Kempsville
27	11B	Emporia Kempsville
53	3B	Bama

Field Warnings:

Field Name: CRETU 12
Total Acres: 18.60 Usable Acres: 18.60
FSA Number: 14
Tract: 3590
Location: Caroline
Slope Class: C **Hydrologic Group:** B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
9	10E	Emporia Kempsville Remlik
59	11B	Emporia Kempsville
31	21C	Kempsville Slagle

Field Warnings:

Field Name: CRETU 13

Total Acres: 7.70 Usable Acres: 7.70

FSA Number: 15

Tract: 3590

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
[NO TEST]				

Soils:

PERCENT	SYMBOL	SOIL SERIES
---------	--------	-------------

17 21C Kempsville Slagle
83 11B Emporia Kempsville

Field Warnings:

Field Name: CRETU 14

Total Acres: 4.40 Usable Acres: 4.40

FSA Number: 16

Tract: 3590

Location: Caroline

Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P

[NO TEST]

K

Lab

Soils:

PERCENT

9

47

44

SYMBOL

11B

21C

1B

SOIL SERIES

Emporia Kempsville

Kempsville Slagle

Altavista

Field Warnings:

Tract Name: 3702

FSA Number: 3702

Location: Caroline

Field Name: CRETU 15

Total Acres: 13.70 Usable Acres: 13.70

FSA Number: 1

Tract: 3702

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
	[NO TEST]			

Soils:

PERCENT	SYMBOL	SOIL SERIES
2	10E	Emporia Kempsville Remlik
73	11B	Emporia Kempsville
25	21C	Kempsville Slagle

Field Warnings:

Field Name: CRETU 16

Total Acres: 14.00 Usable Acres: 14.00

FSA Number: 2

Tract: 3702

Location: Caroline

Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

P

K

Lab

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
10	10E	Emporia Kempsville Remlik
20	11A	Emporia Kempsville
63	11B	Emporia Kempsville
6	21C	Kempsville Slagle

Field Warnings:

Tract Name: 3774

FSA Number: 3774

Location: Caroline

Field Name: CRETU 1

Total Acres: 27.20

Usable Acres: 27.20

FSA Number: 1

Tract: 3774

Location: Caroline

Slope Class: C

Hydrologic Group: B

Riparian buffer width: 0 ft

Distance to stream: 0 ft

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PH

P

K

Lab

[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
---------	--------	-------------

10	10E	Emporia Kempsville Remlik
81	11B	Emporia Kempsville
9	21C	Kempsville Slagle

Field Warnings:

Field Name: CRETU 2
Total Acres: 15.60 Usable Acres: 15.60
FSA Number: 2
Tract: 3774
Location: Caroline
Slope Class: C **Hydrologic Group:** C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
69	21C	Kempsville Slagle
31	11B	Emporia Kempsville

Field Warnings:

Field Name: CRETU 3
Total Acres: 6.30 Usable Acres: 6.30
FSA Number: 3
Tract: 3774

Location: Caroline
Slope Class: C Hydrologic Group: C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE [NO TEST] PH P K Lab

Soils:

PERCENT	SYMBOL	SOIL SERIES
16	10E	Emporia Kempsville Remlik
7	11C	Emporia Kempsville
77	21C	Kempsville Slagle

Field Warnings:

Field Name: CRETU 4
Total Acres: 15.70 Usable Acres: 15.70
FSA Number: 4
Tract: 3774
Location: Caroline
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
8	11A	Emporia Kempsville
60	11B	Emporia Kempsville
16	11C	Emporia Kempsville
15	21C	Kempsville Slagle

Field Warnings:

Field Name: **CRETU 5**
Total Acres: 3.60 Usable Acres: 3.60
FSA Number: 5
Tract: 3774
Location: Caroline
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:
DATE PH P K Lab
[NO TEST]

Soils:

PERCENT	SYMBOL	SOIL SERIES
22	11A	Emporia Kempsville
47	11B	Emporia Kempsville

32 21C Kempsville Slagle

Field Warnings:

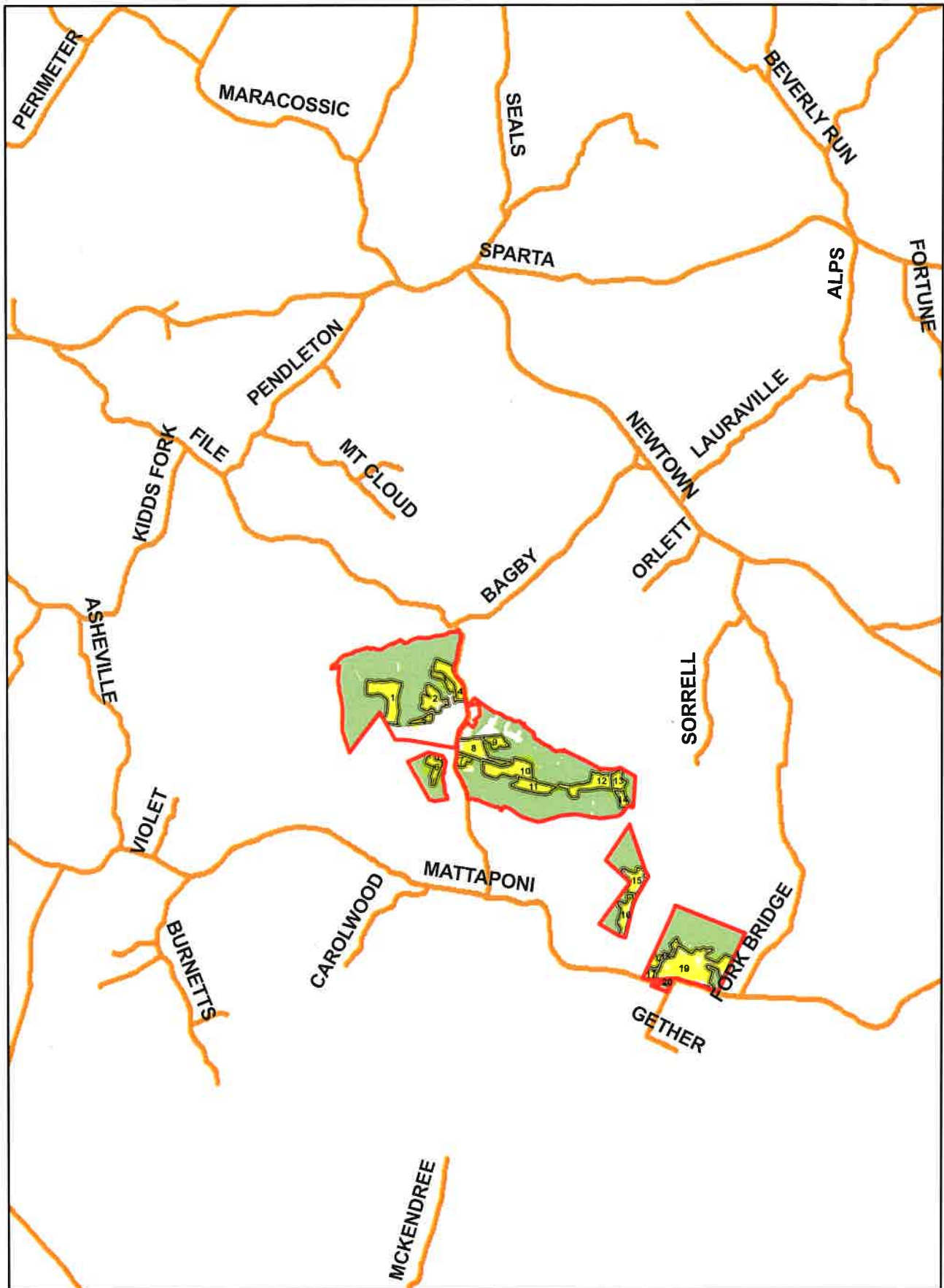
MAPS

(Biosolids Land Application)



6-26-19

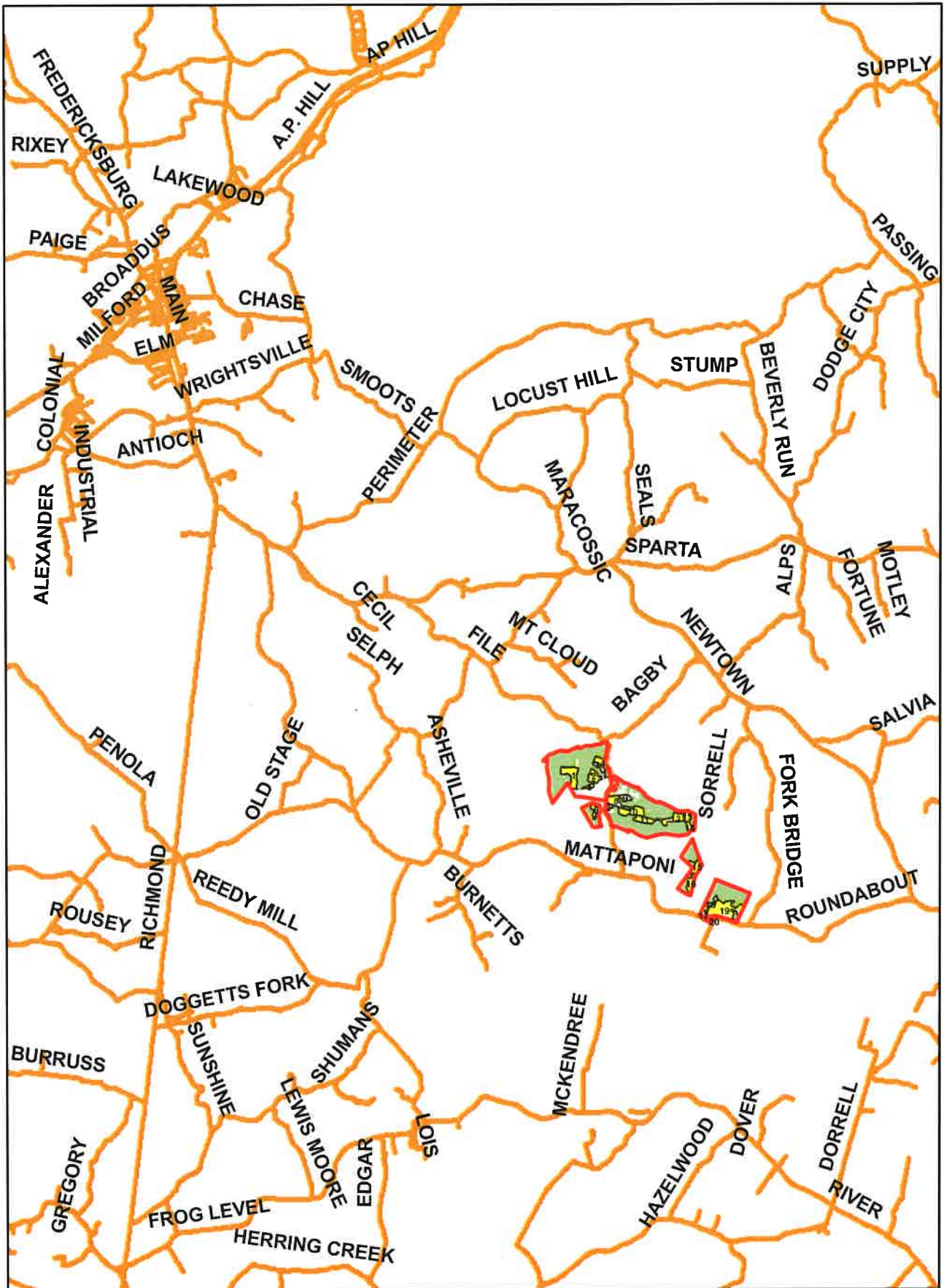




6-26-19

VICINITY MAP

1 in = 1 miles



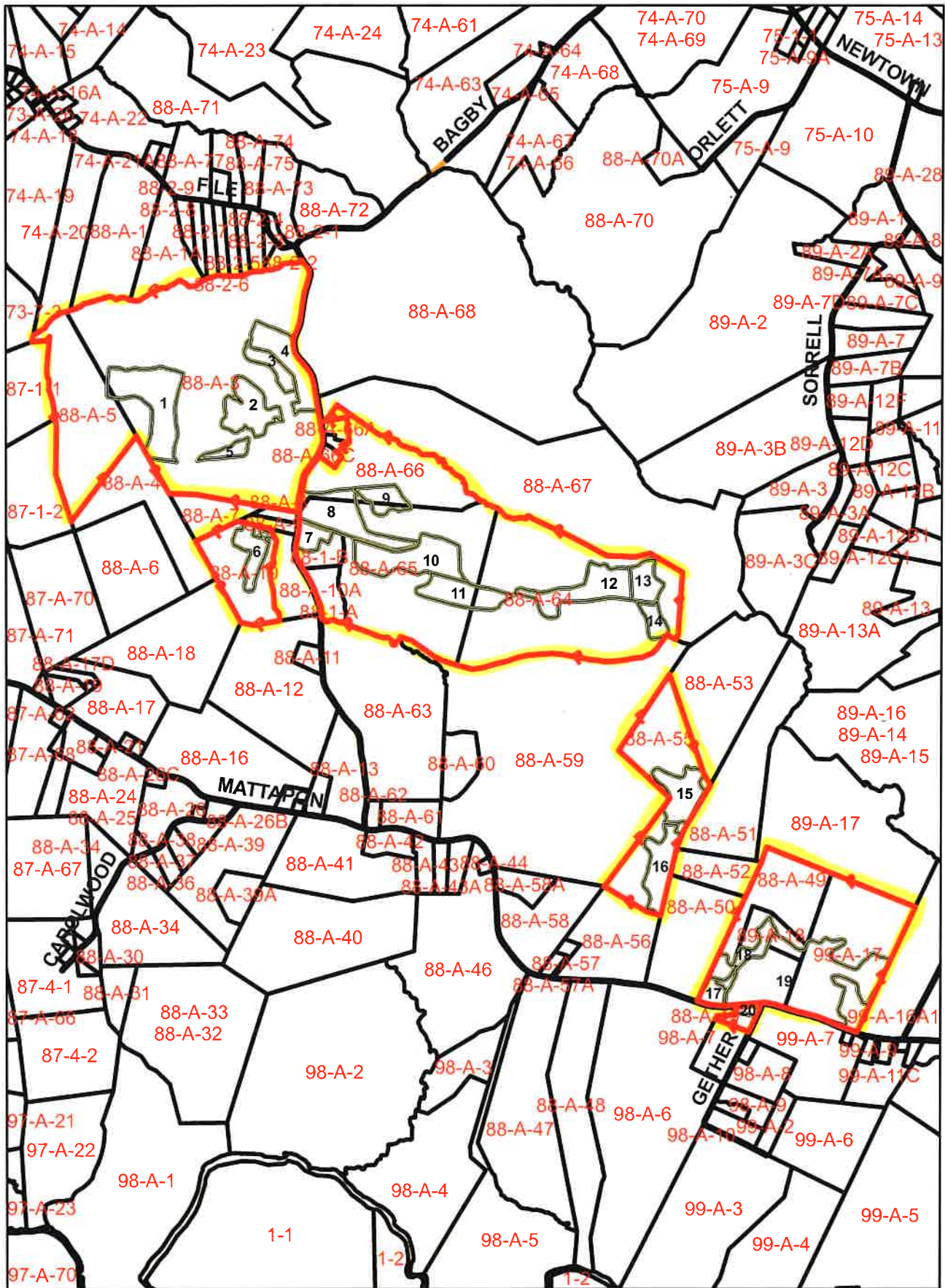
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VICINITY MAP

1 in = 2 miles



EDWIN T UPSHAW III



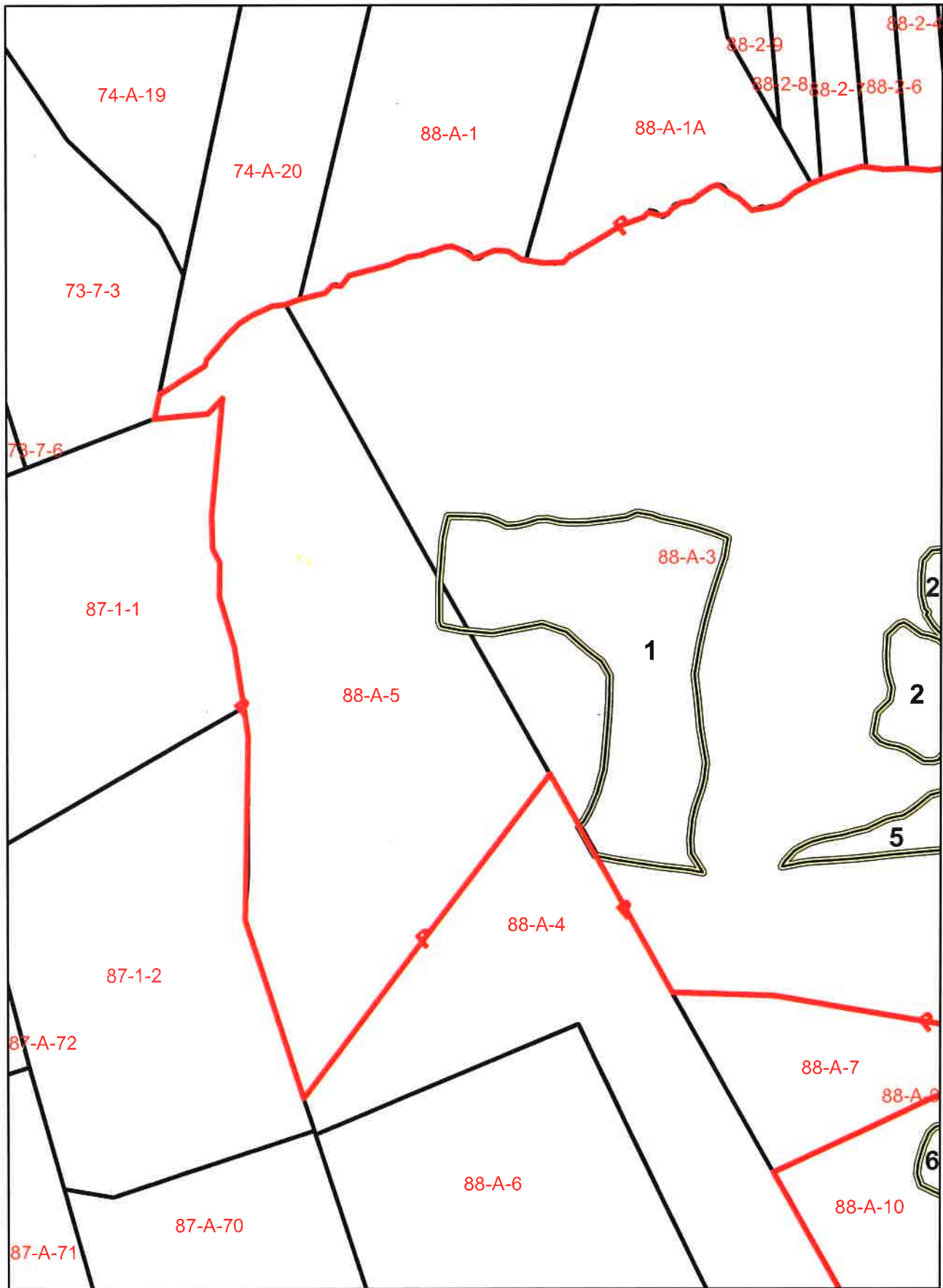
6-26-19

TAX MAP

1 in = 2,500 feet



EDWIN T UPSHAW III

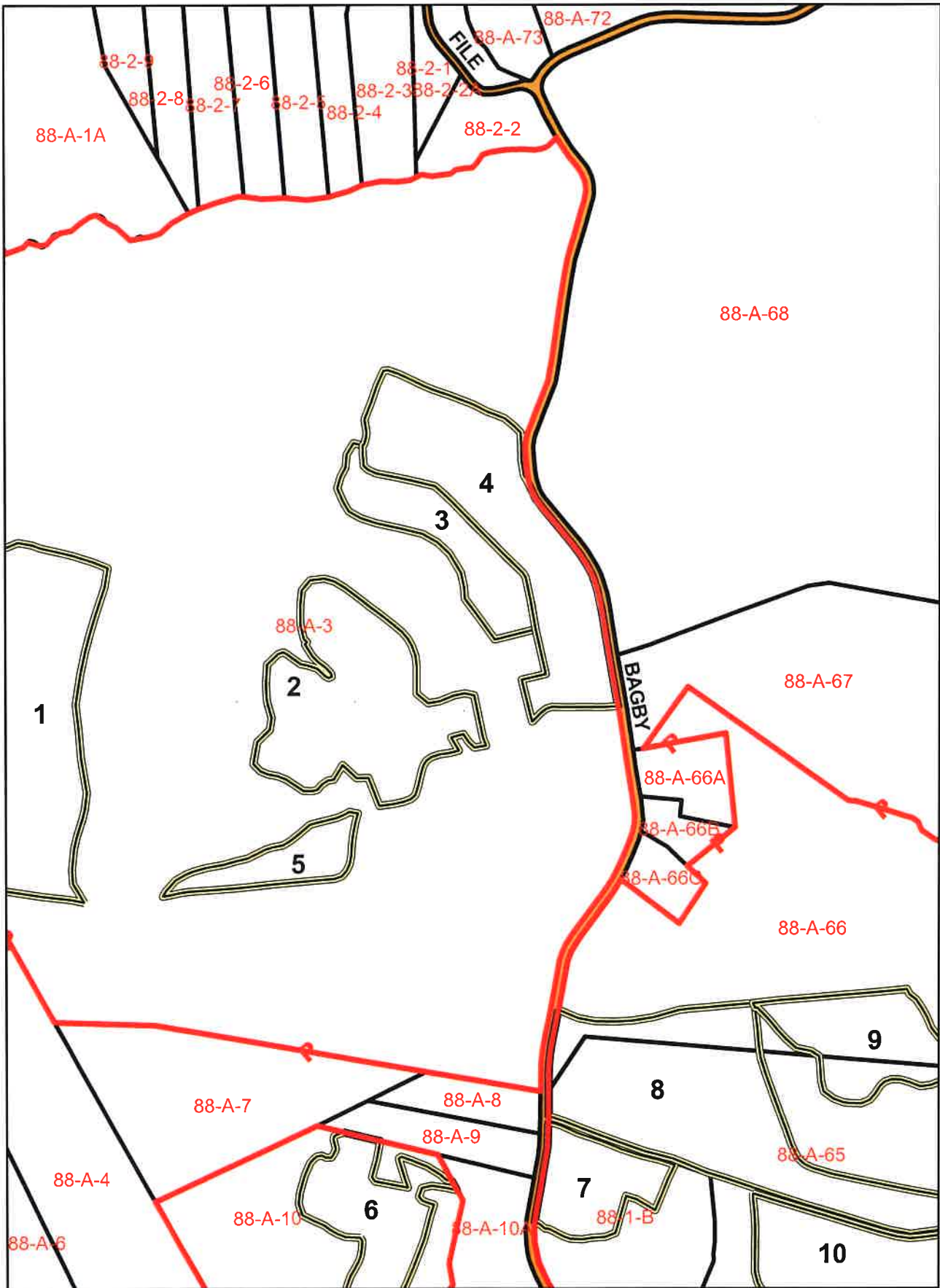


6-26-19

TAX MAP

1 in = 660 feet





6-26-19

TAX MAP

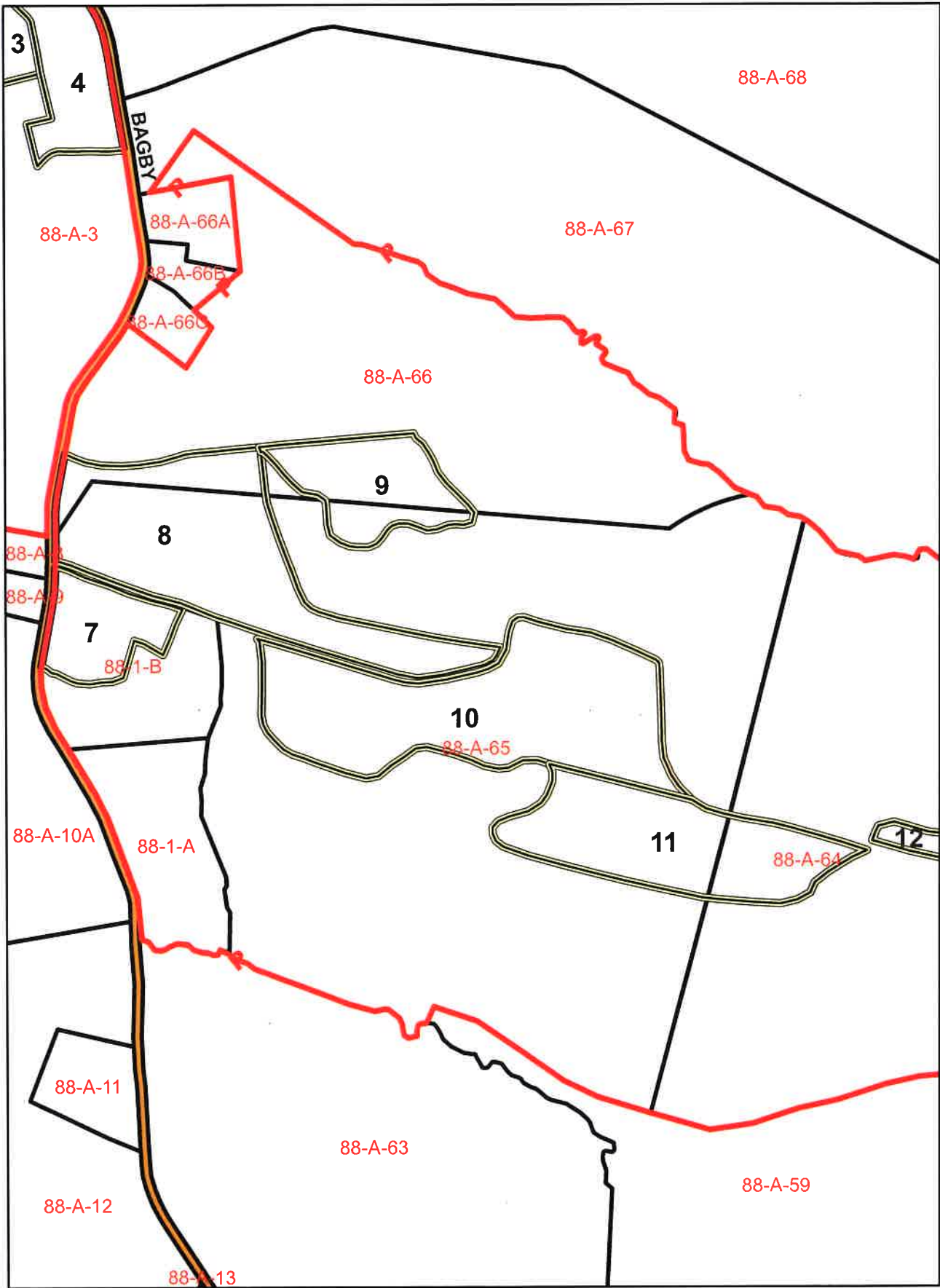
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6-26-19

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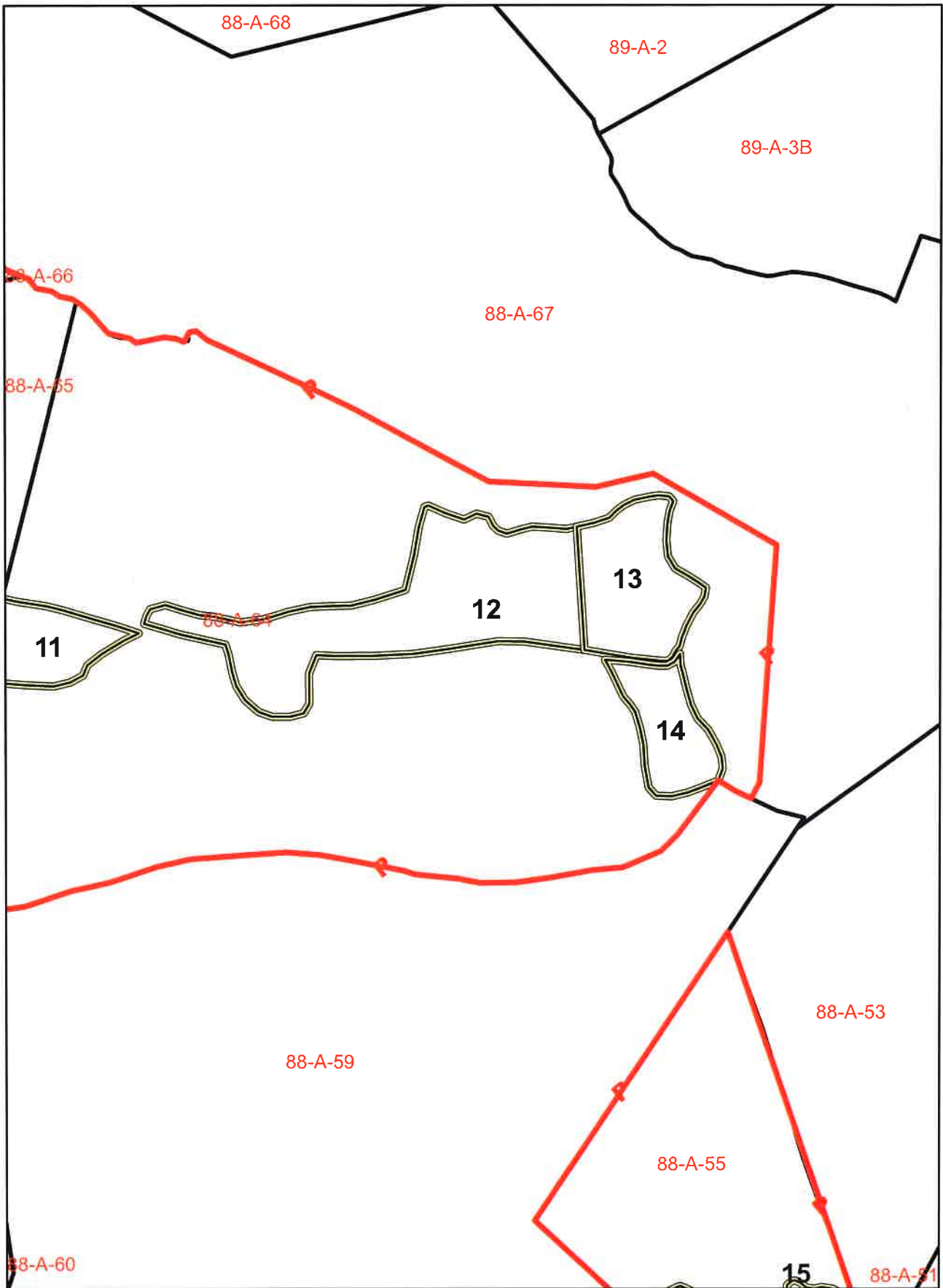
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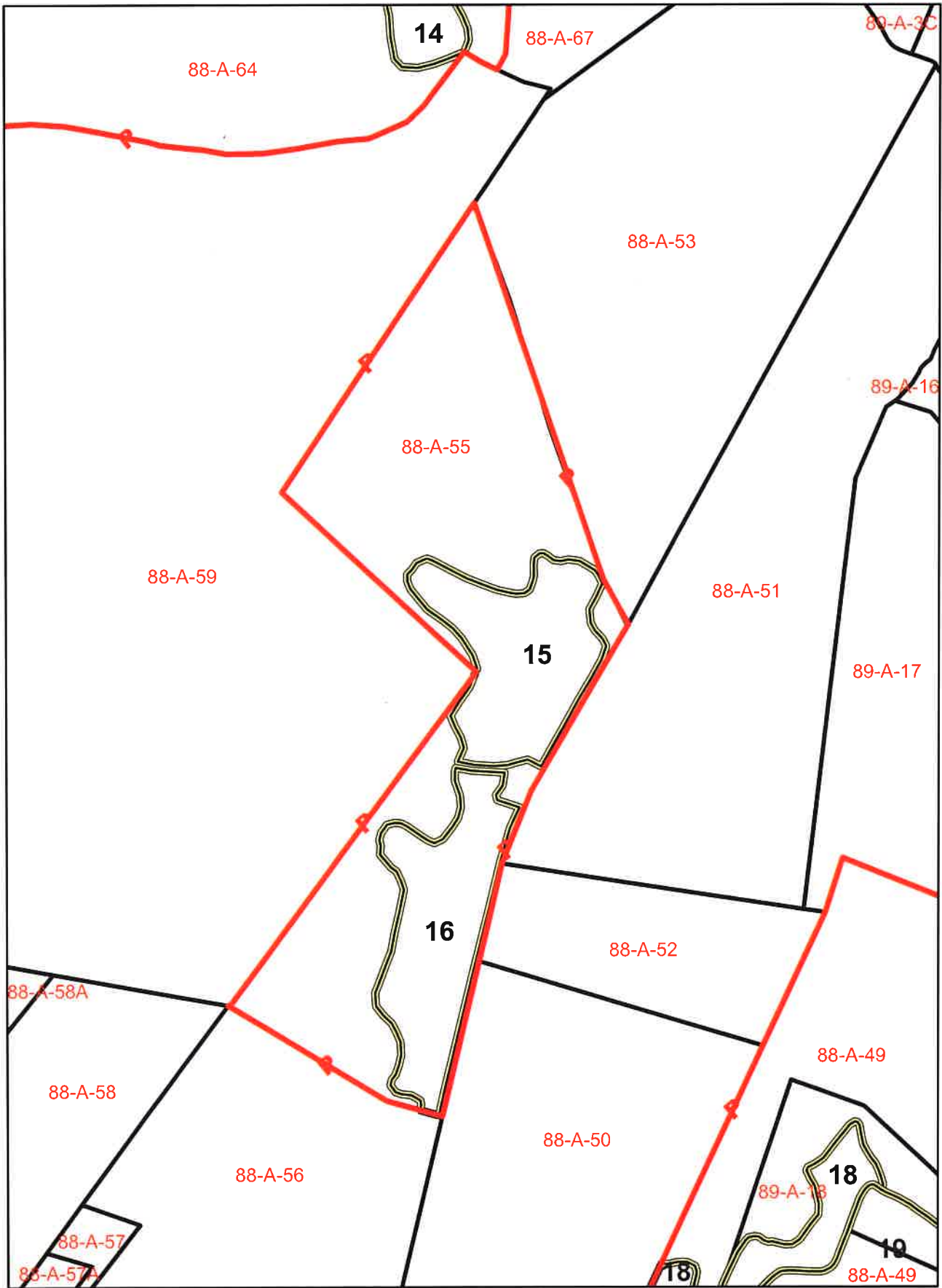
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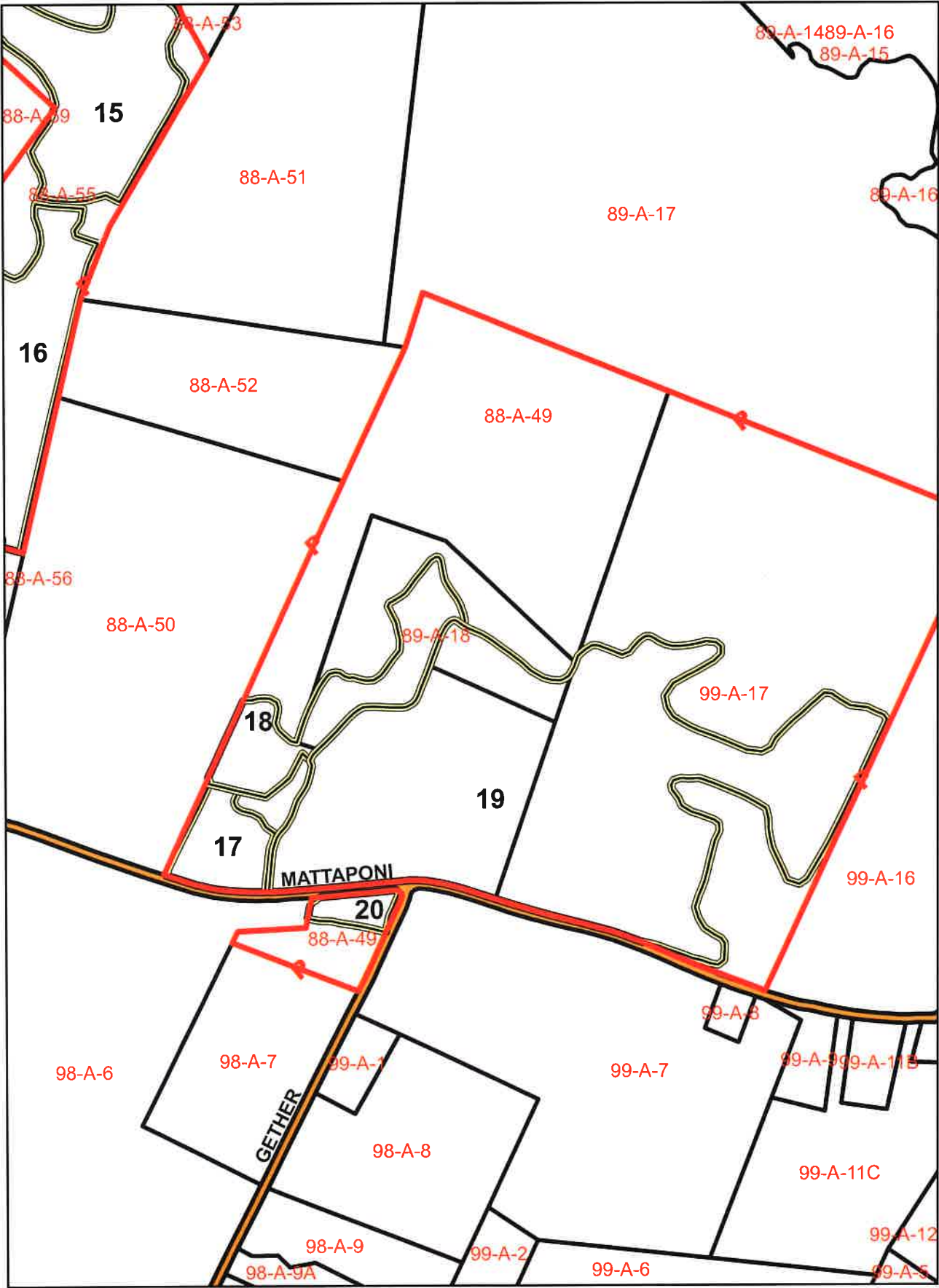
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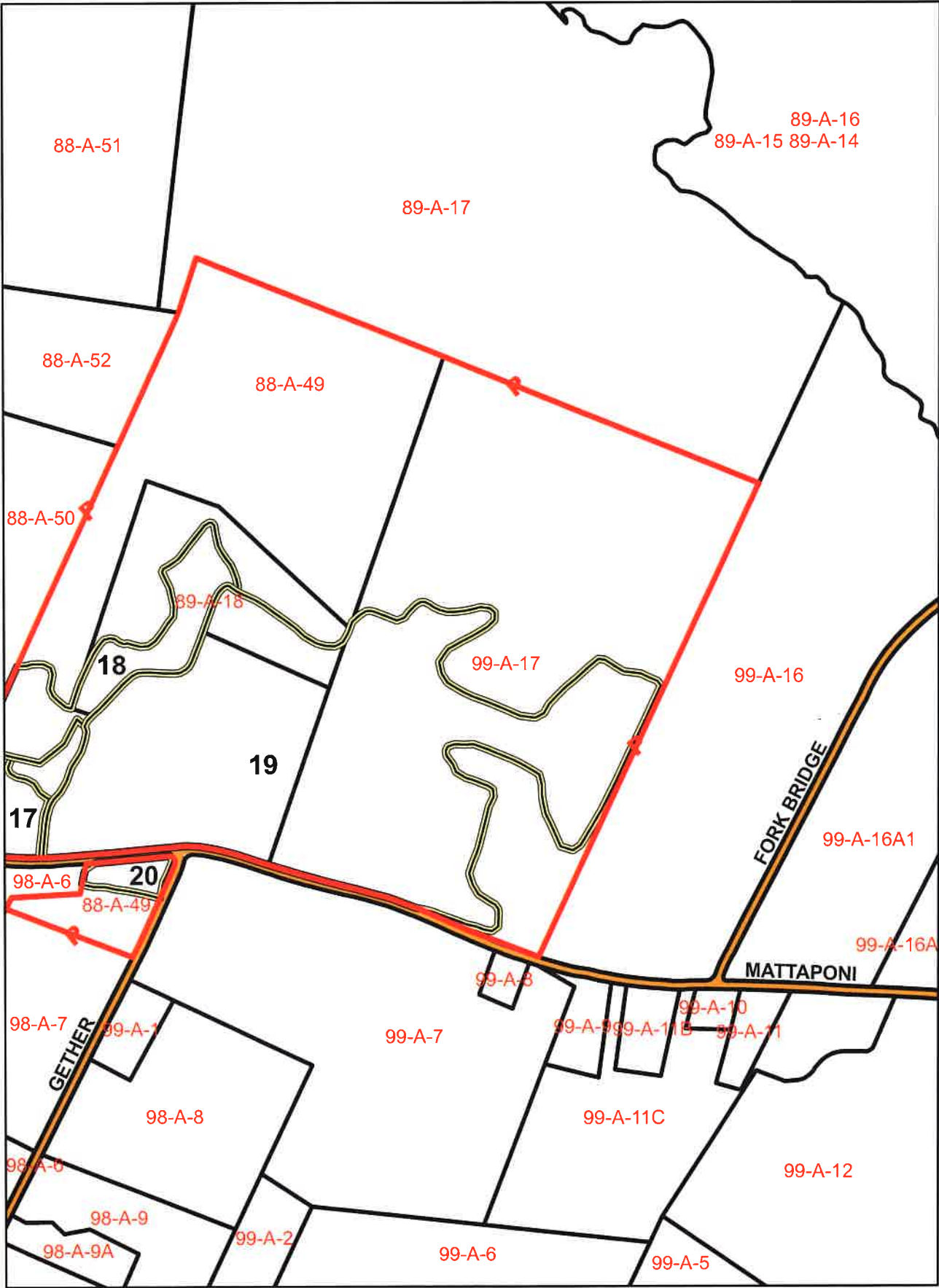
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6-26-19

TAX MAP

1 in = 660 feet



6-26-19

TAX MAP

1 in = 660 feet

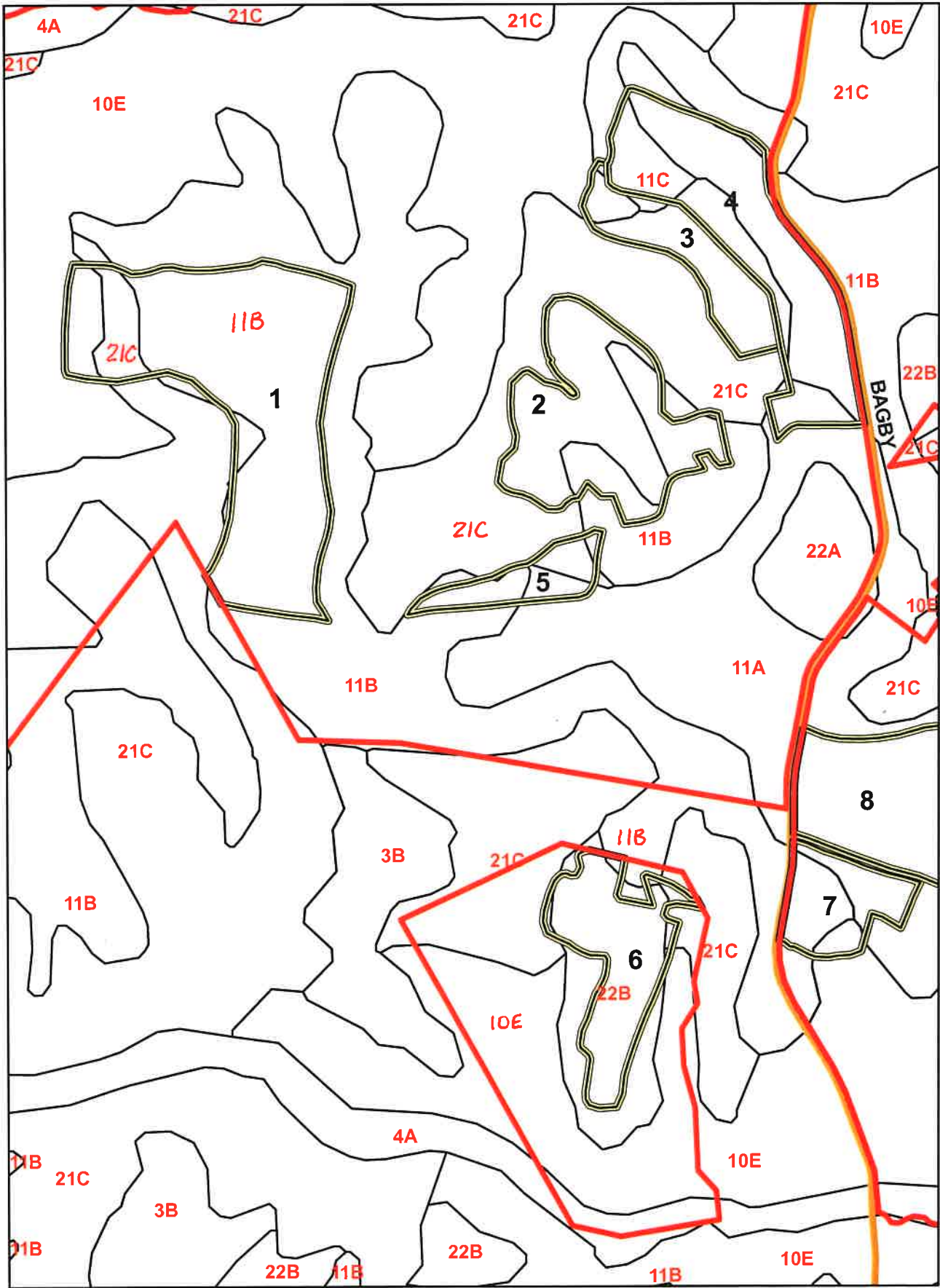
ADJOINING LANDOWNERS

EDWIN T. UPSHAW III

CAROLINE COUNTY

Tax Map	Parcel #	Owner Name(s)
73-7	3	Sandra L. Boisseau
74-A	19	Reginald Wendall Bennett
	20	Warren L. Andrews
87-1	1	No Listing
	2	Edwin T. Upshaw III and Katherine H.
88-A	1	Walter H. Cummings and Kimberly A. Lynch
	1A	Reginald W. Bennett
	4	Edwin T. Upshaw III and Carl D. Upshaw, Jr.
	6	Benjamin B. Jeter
	7	Edwin T. Upshaw III and Carl D. Upshaw, Jr.
	8	Carl Douglas Upshaw, Jr.
	9	Jane E. Groat
	10A	Olivia Jones Trustee
	12	Joseph I. Thomas, Jr.
	18	Five Poles Farm LLC
	50	Nancy Ball Sharp Trustee
	51	Nancy Ball Sharp Trustee
	52	Nancy Ball Sharp Trustee
	53	Sherrie A. Upshaw and Sandra Buissett
	56	Lynwood D. and Rebecca B. Broadus
	58	Frank T. Huffman, Jr. and Susan B.
	59	Ralph C. Gibson III and Glen Gordon Gibson
	63	Gregory W. Vaughan and Judson T. Vaughan III
	66A	Charles Upshaw
	66B	Charles Upshaw
	66C	Carl Douglas Upshaw, Jr.
	67	Carl D. Upshaw, Jr.
	68	Margarette C. Upshaw

Tax Map	Parcel #	Owner Name(s)
88-A	70	Timothy D. Varley and Christina Y. Gauthier
	73	Leo Wayne and Linda Johnson
88-1	A	Edwin T. Upshaw III and Katherine H.
88-2	1	Jeweldene Christian
	2	Mary Jo Lunoe
	2A	William C. Leadbetter and Taylor M. Stabley
	3	Charley W. Deyo, Jr.
	4	Mark J. and Claudia Depollo
	5	Damon L. Gray, Jr. and Kimberly L.
	6	Mary Gray
	7	Damon L. and Mary Gray
	8	Stanley A. Fields III and Jennifer E. Gray
	9	Samuel T. Frantum
89-A	17	Edwin T. Upshaw III and Katherine H.
98-A	6	Woodford B. Broaddus and Jean D.
	7	Woodford B. Broaddus and Jean D.
99-A	1	Gary L. Payne
	7	Robert Dwain Upshaw
	8	Robert Dwain Upshaw
	9	Ellis R. Lowry, Jr.
	16	Edward L. and Susan C. Upshaw Trs.

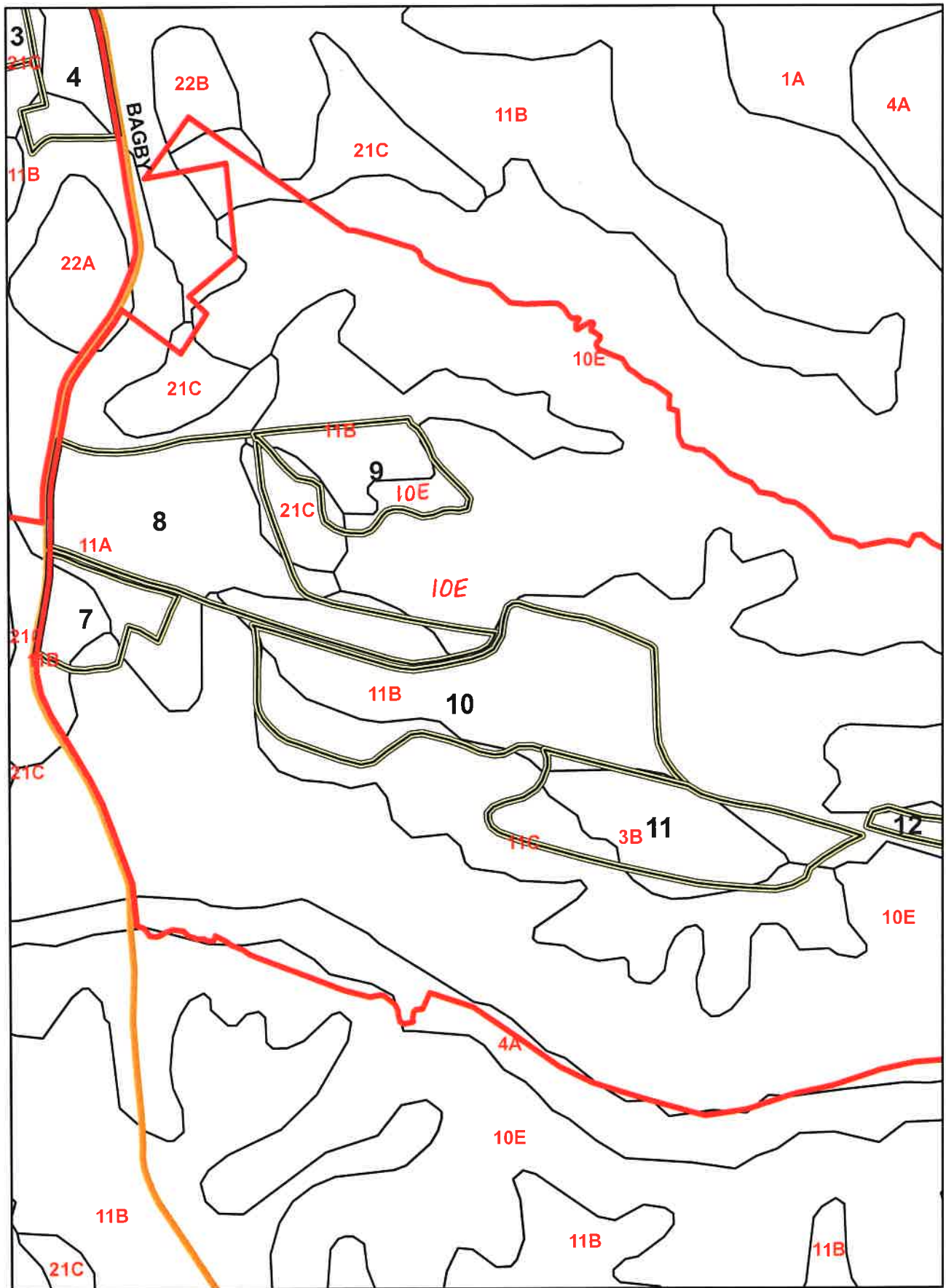


SOIL MAP

1 in = 660 feet

6-Z6-19
Frequent
Flooding

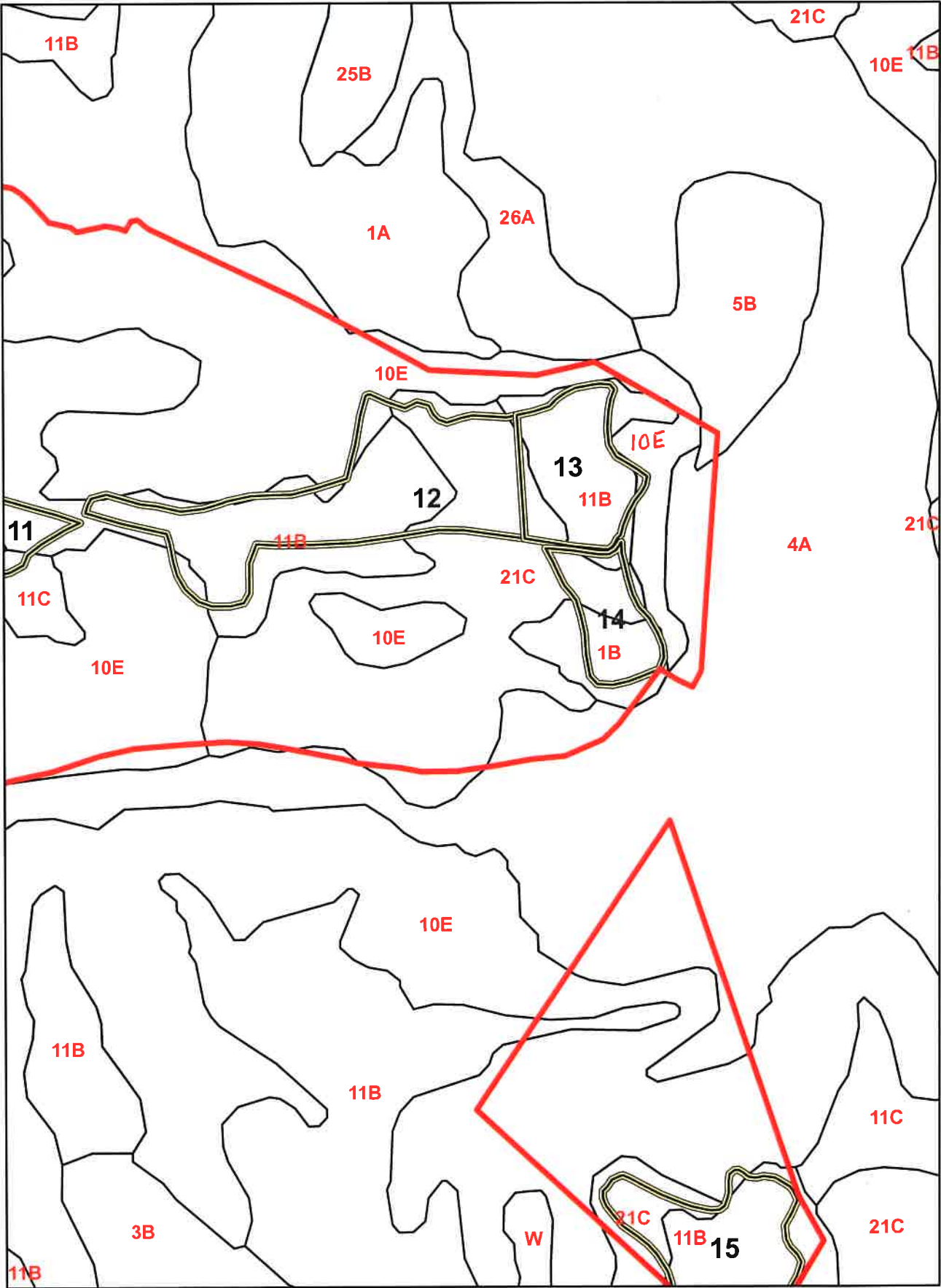




SOIL MAP

1 in = 660 feet

6-26-19
Frequent
Flooding



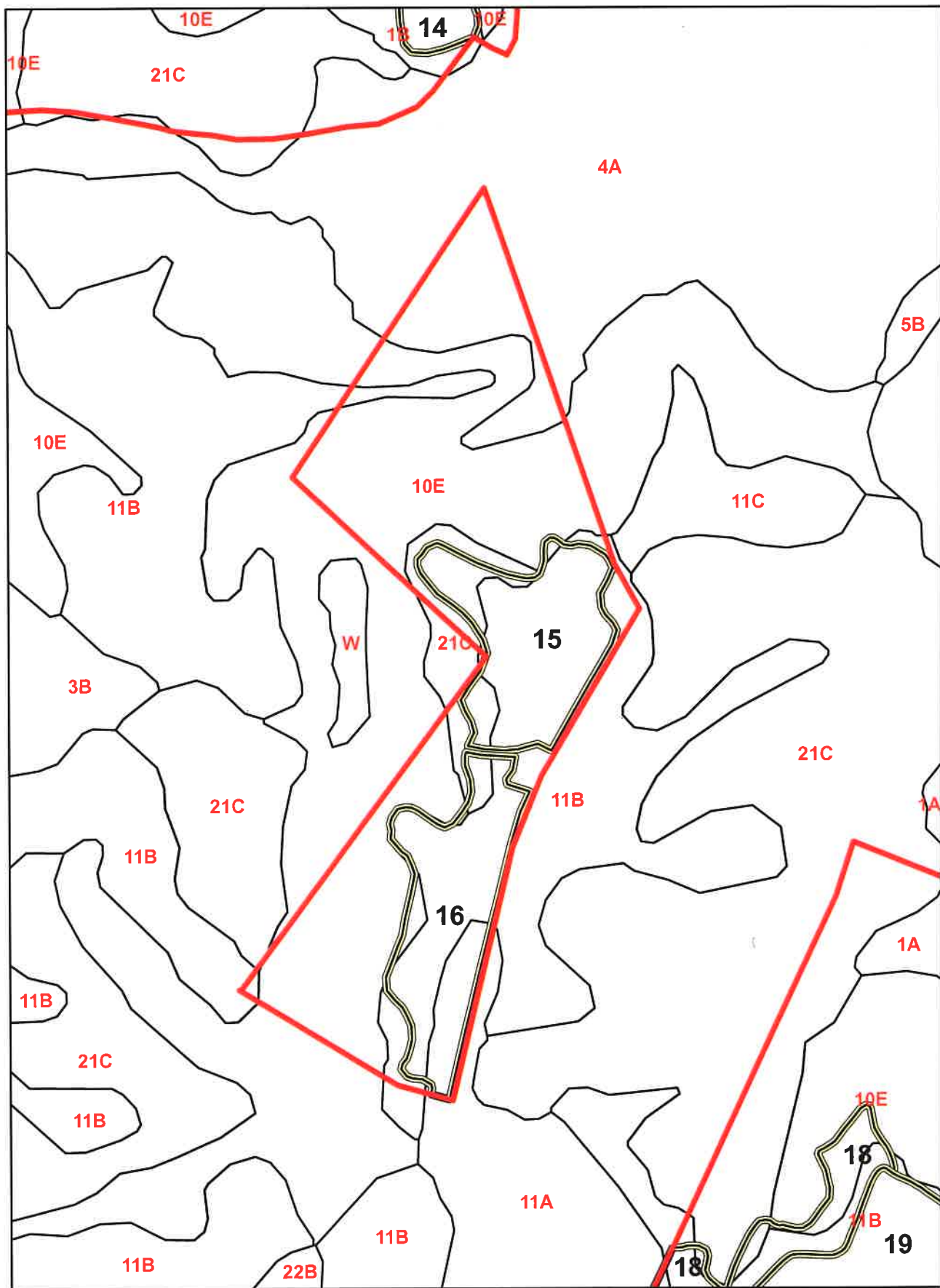
6-26-19



Frequent
Flooding

SOIL MAP

1 in = 660 feet

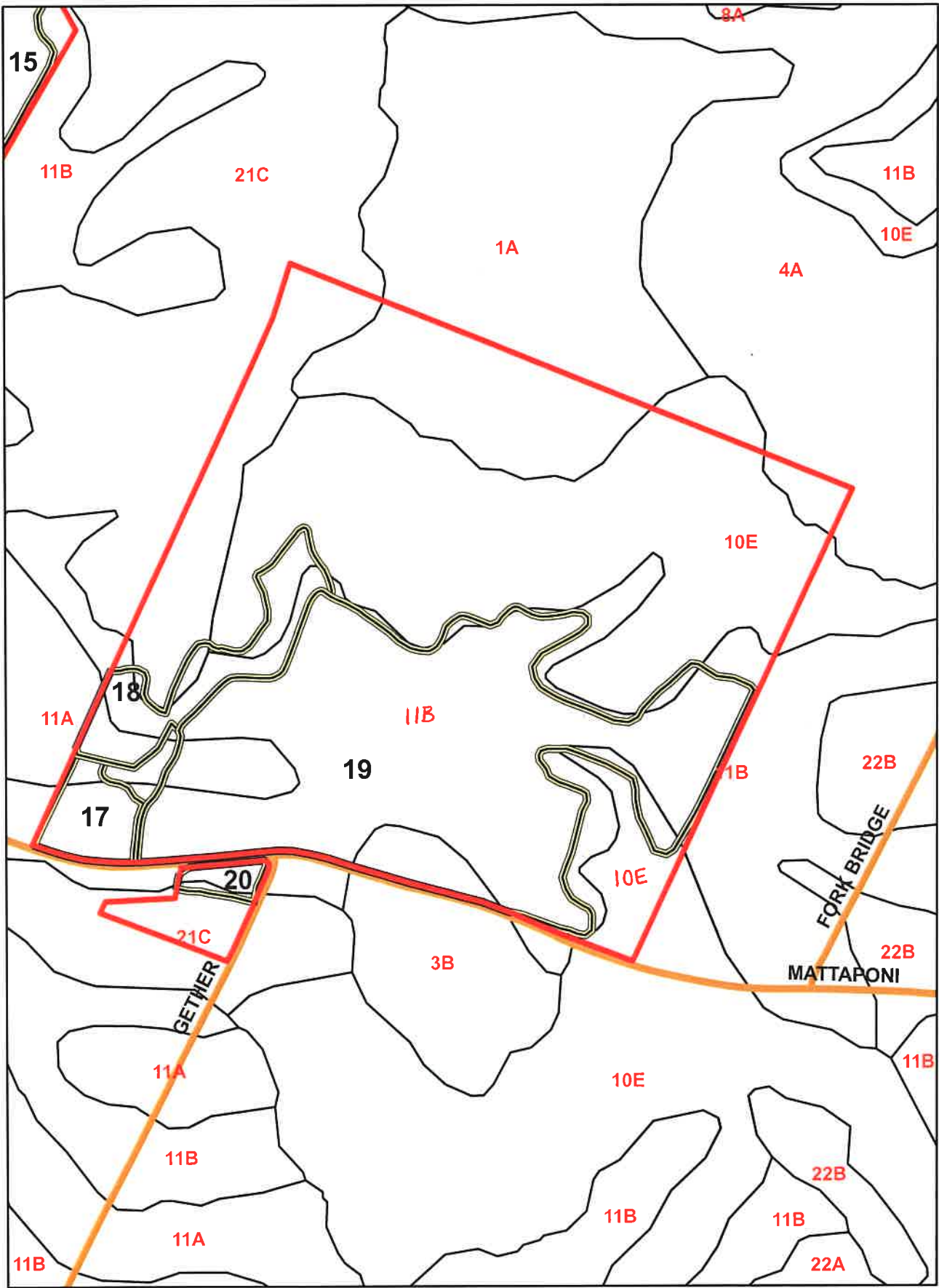


6-26-19

Frequent Flooding

SOIL MAP

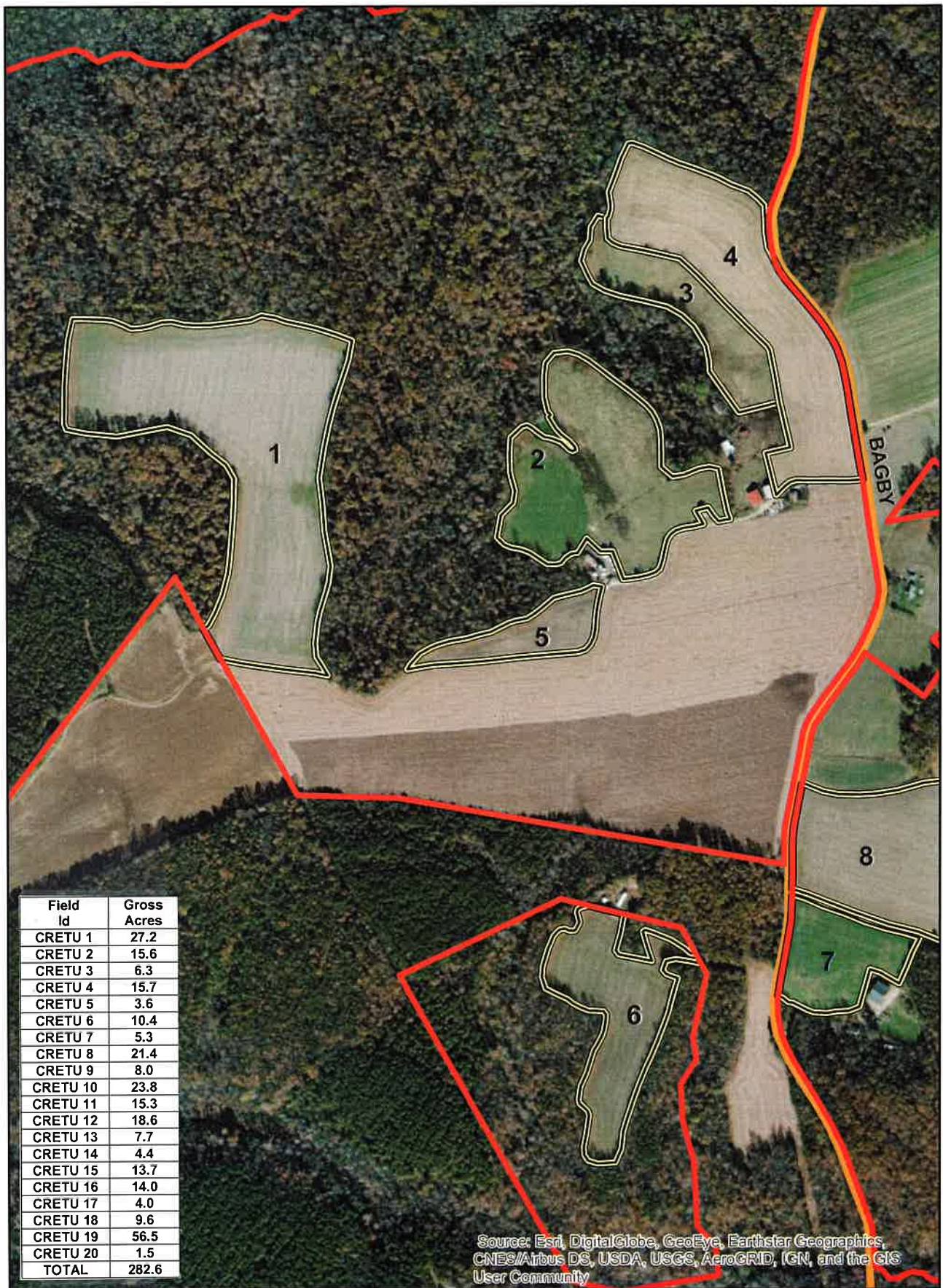
1 in = 660 feet



SOIL MAP

1 in = 660 feet

6-26-19
Frequent
Flooding



6-26-19

AERIAL MAP

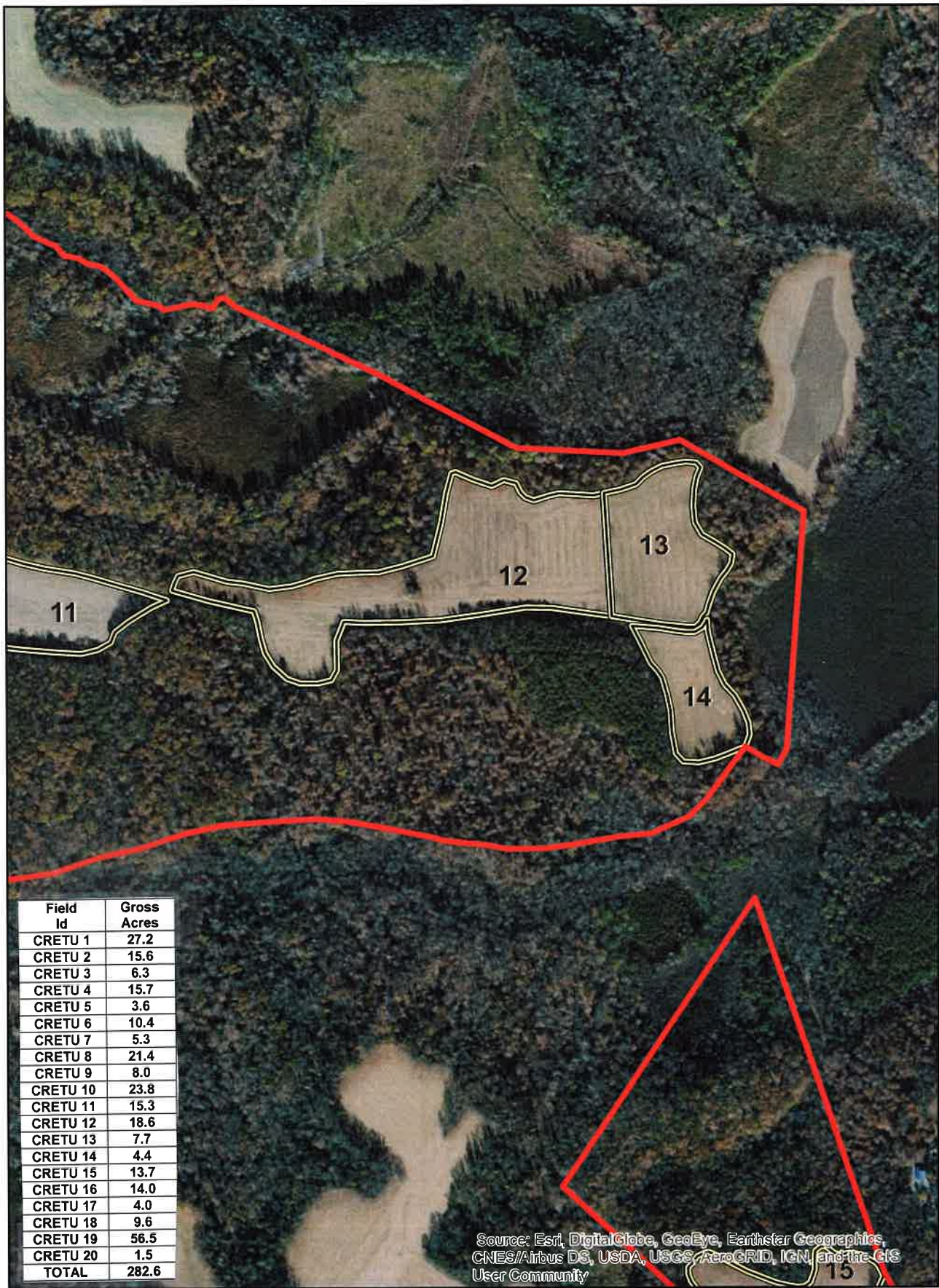
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6-26-19

AERIAL MAP

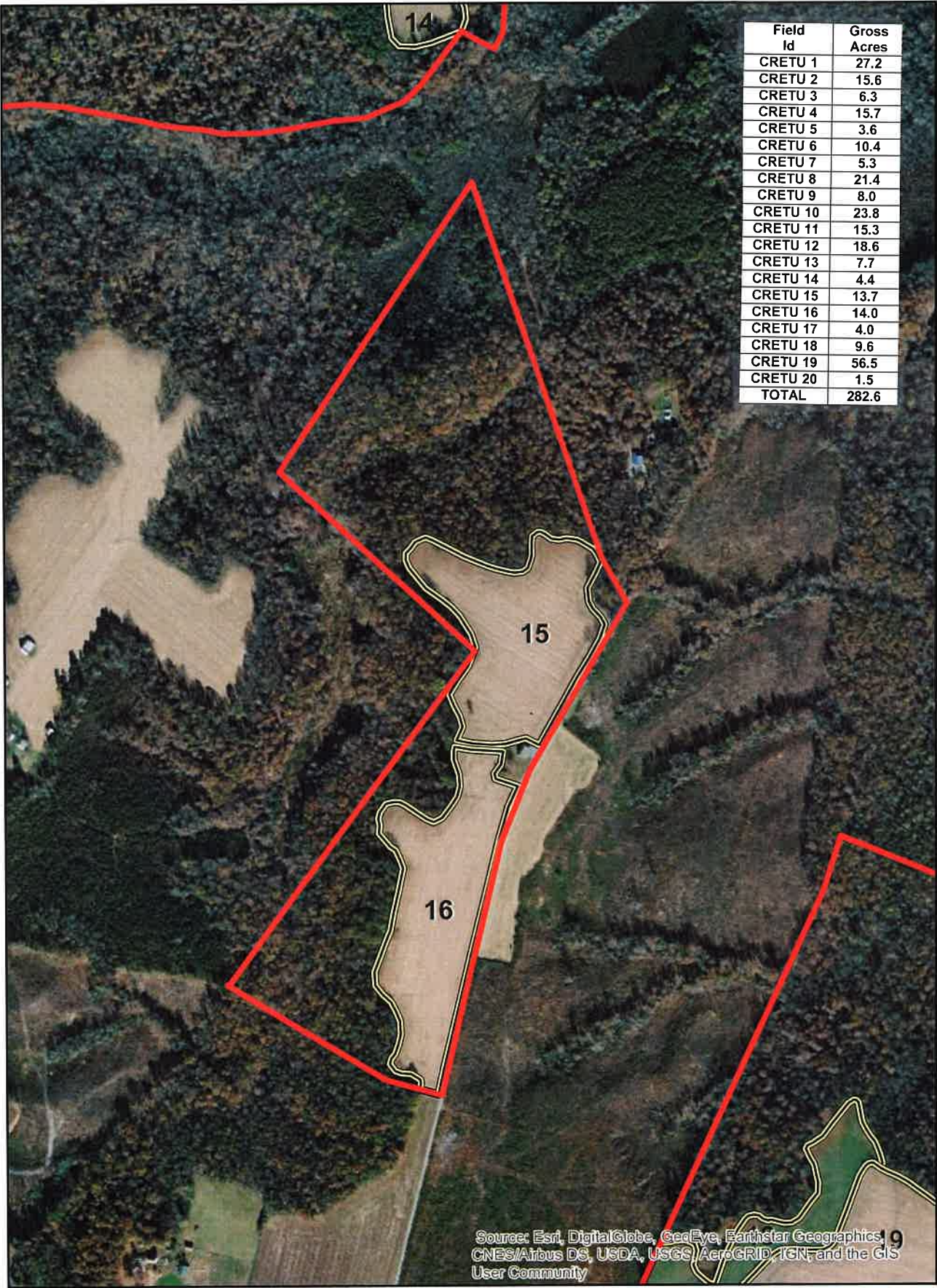
1 in = 660 feet



6-26-19

AERIAL MAP

1 in = 660 feet



6-26-19

AERIAL MAP

1 in = 660 feet



6-26-19

AERIAL MAP

1 in = 660 feet

Farm 2862
Tract 3774

2019 Program Year

Map Created June 05, 2019

Common Land Unit

- Non-Cropland
- Cropland
- rc_L_va033
- Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation
- Compliance Provisions

Tract Cropland Total: 68.44 acres



United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).

Farm 2862

Tract 3459





2019 Program Year

Map Created June 05, 2019

Common Land Unit

-  Non-Cropland
-  Cropland
-  rcl_va033
-  Tract Boundary

Wetland Determination Identifiers

-  Restricted Use
-  Limited Restrictions
-  Exempt from Conservation
-  Compliance Provisions

Tract Cropland Total: 10.40 acres



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Farm 2866

Tract 3590

2019 Program Year

Map Created June 05, 2019

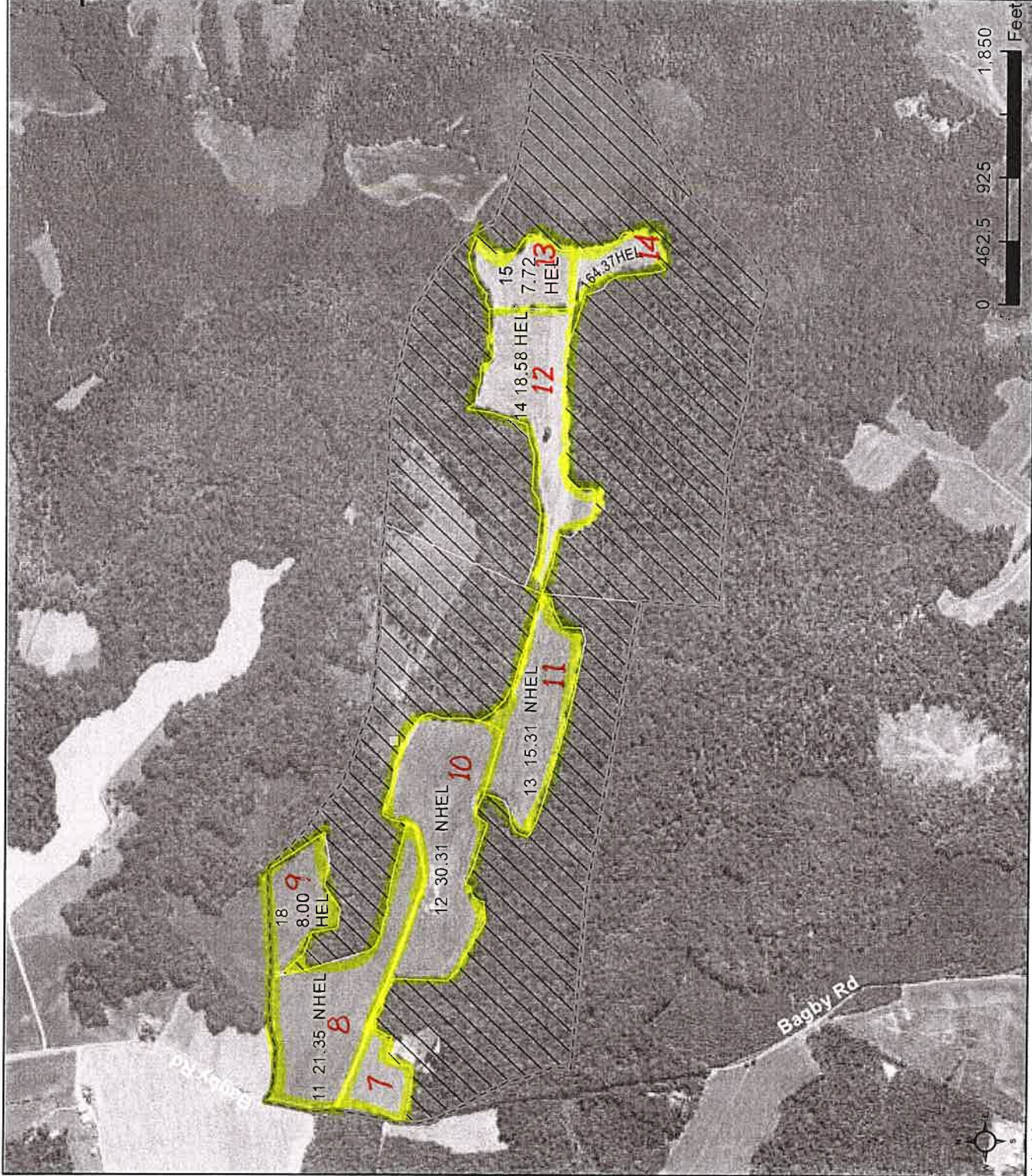
Common Land Unit

- Non-Cropland
- Cropland
- rcl_l_va033
- Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation
- Compliance Provisions

Tract Cropland Total: 105.64 acres






United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).





Farm 2993
 Tract 3702

2019 Program Year
 Map Created June 05, 2019

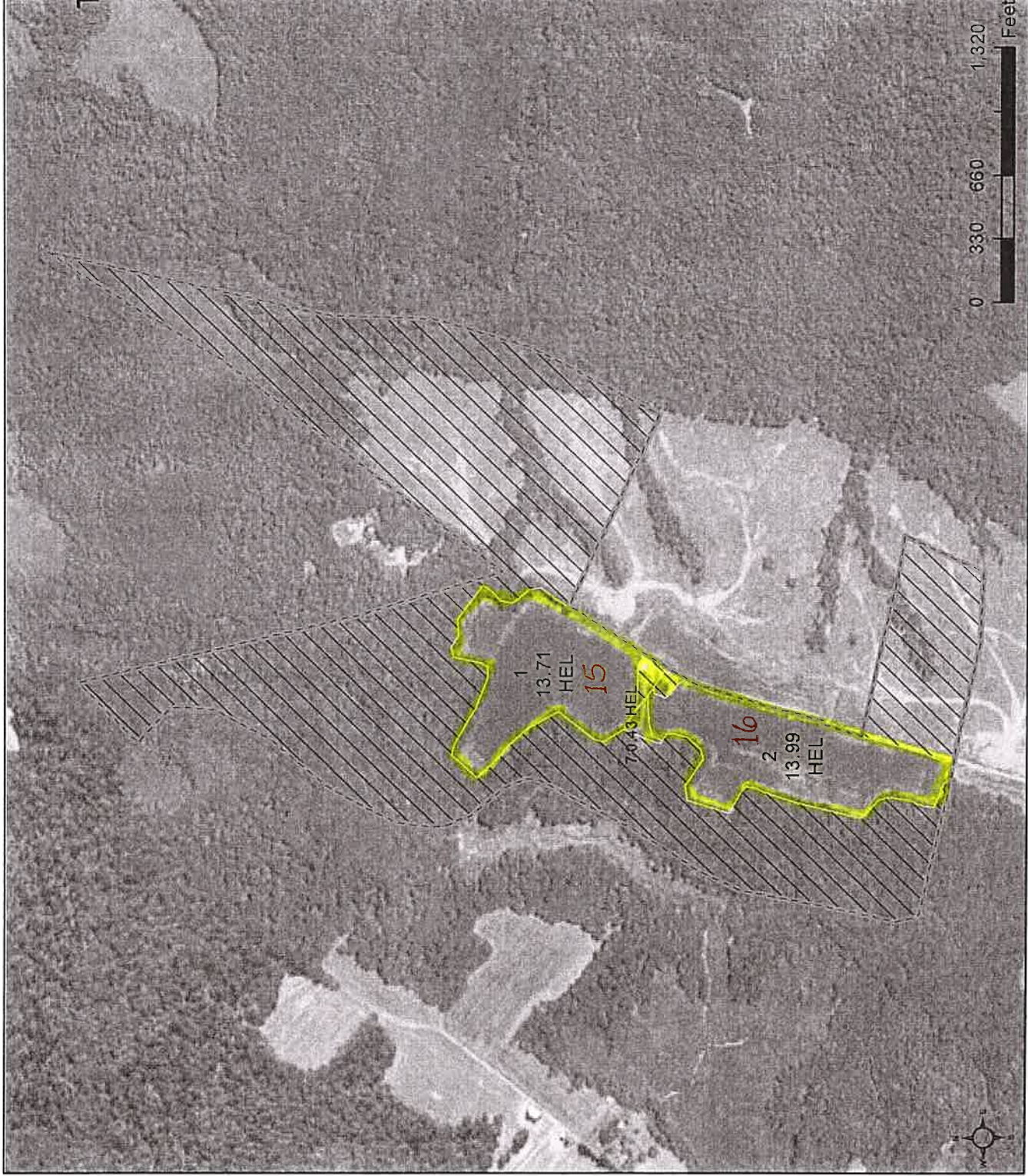
Common Land Unit

-  Non-Cropland
-  Cropland
-  Tract Boundary

Wetland Determination Identifiers

-  Restricted Use
-  Limited Restrictions
-  Exempt from Conservation
-  Compliance Provisions

Tract Cropland Total: 28.13 acres



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Farm 2607 Tract 392

2019 Program Year

Map Created June 05, 2019

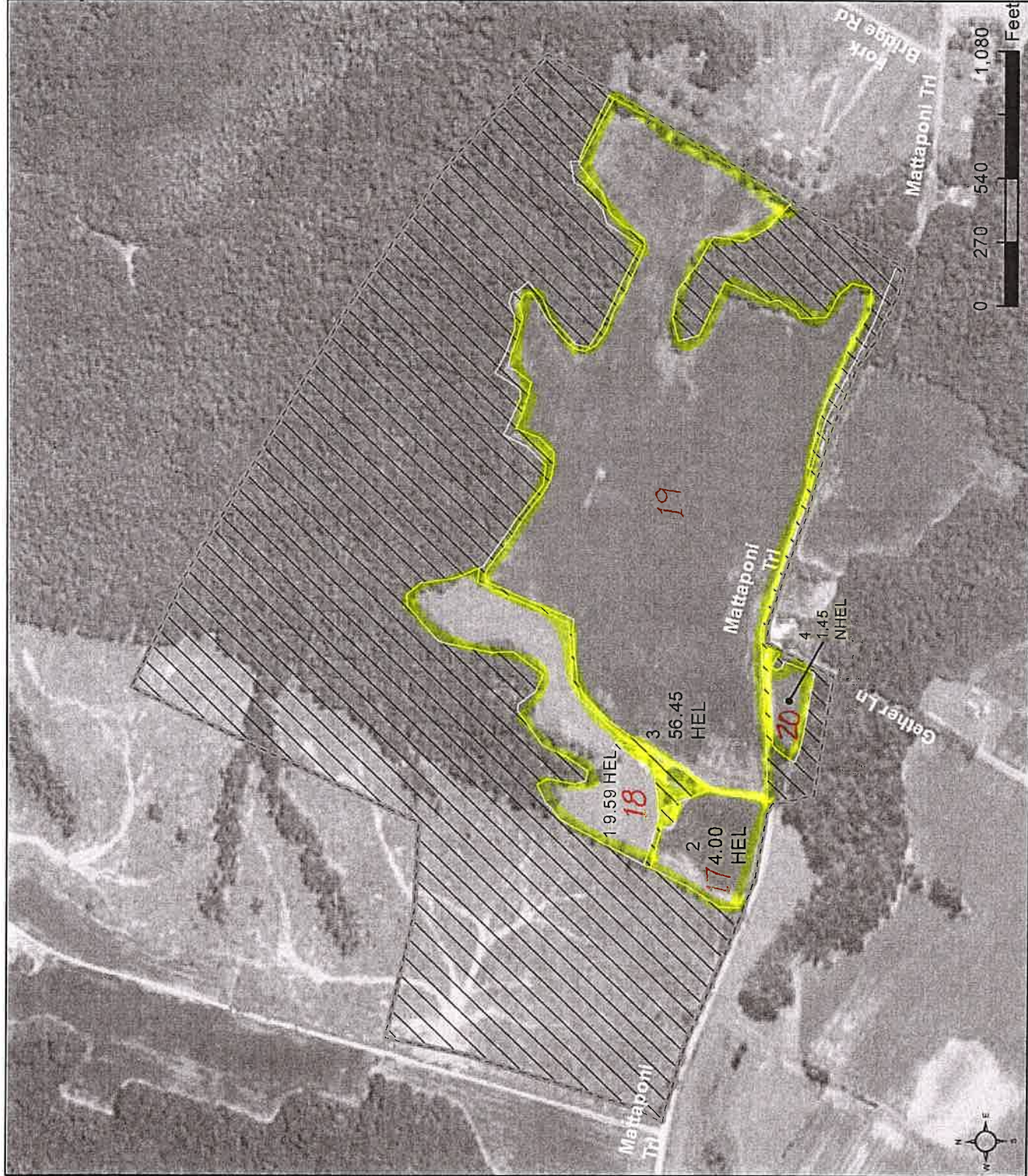
Common Land Unit

- Non-Cropland
- Cropland
- rcLL_va033
- Tract Boundary

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation
- Compliance Provisions

Tract Cropland Total: 71.49 acres

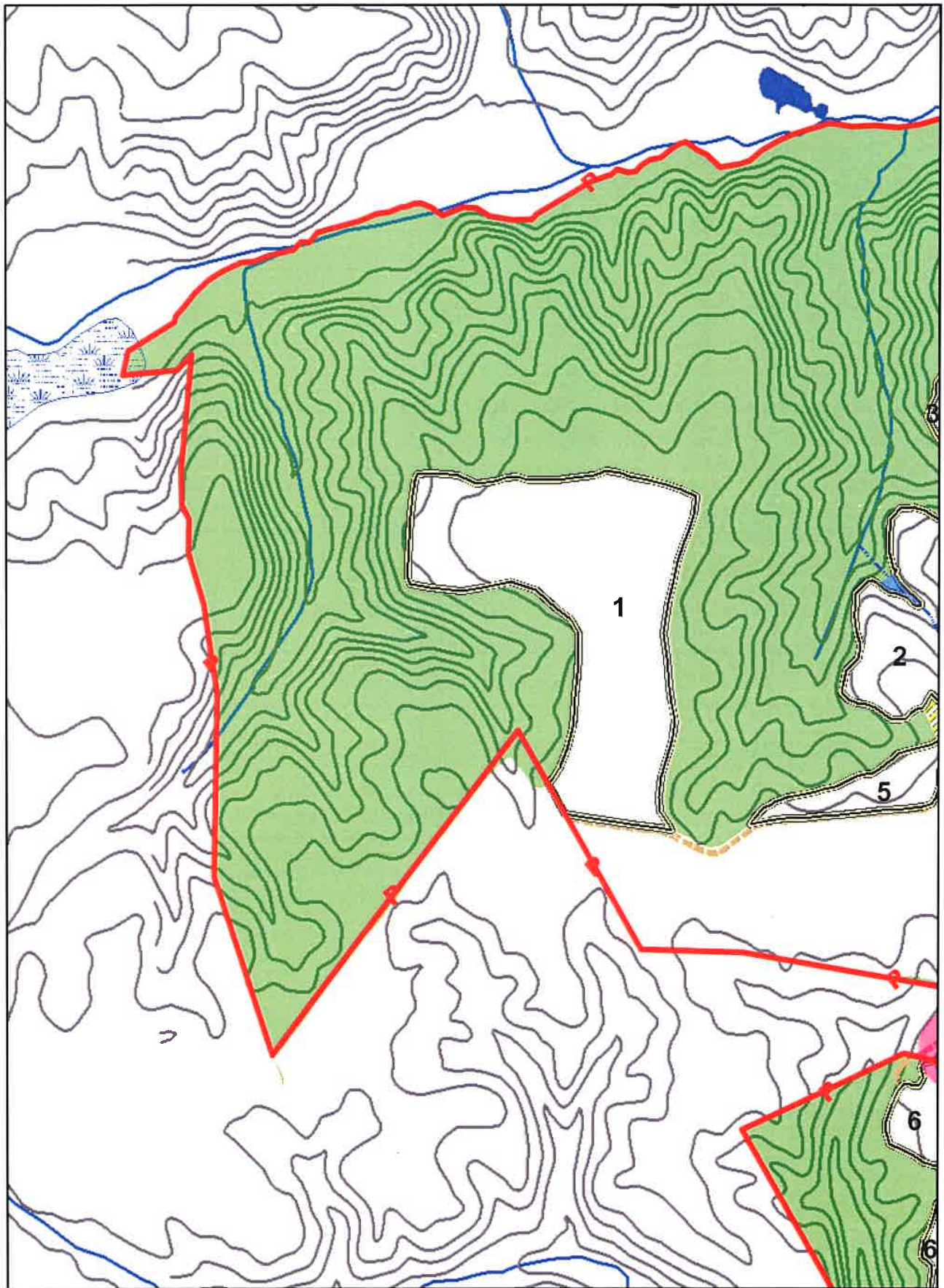


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Legend For Site Plan

Symbol	Feature	Minimum Setback
	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
 	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
	Wet Spot	
	Trees and Woods	
	Private Drive	
	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
	Severely Eroded Spot	18 Inch minimum depth of soil
  	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
	Property Line	100 feet from property line *
 	Slope	15% maximum
	Hashed out Area	No application

*Buffer can be reduced or waived upon written consent from landowner.

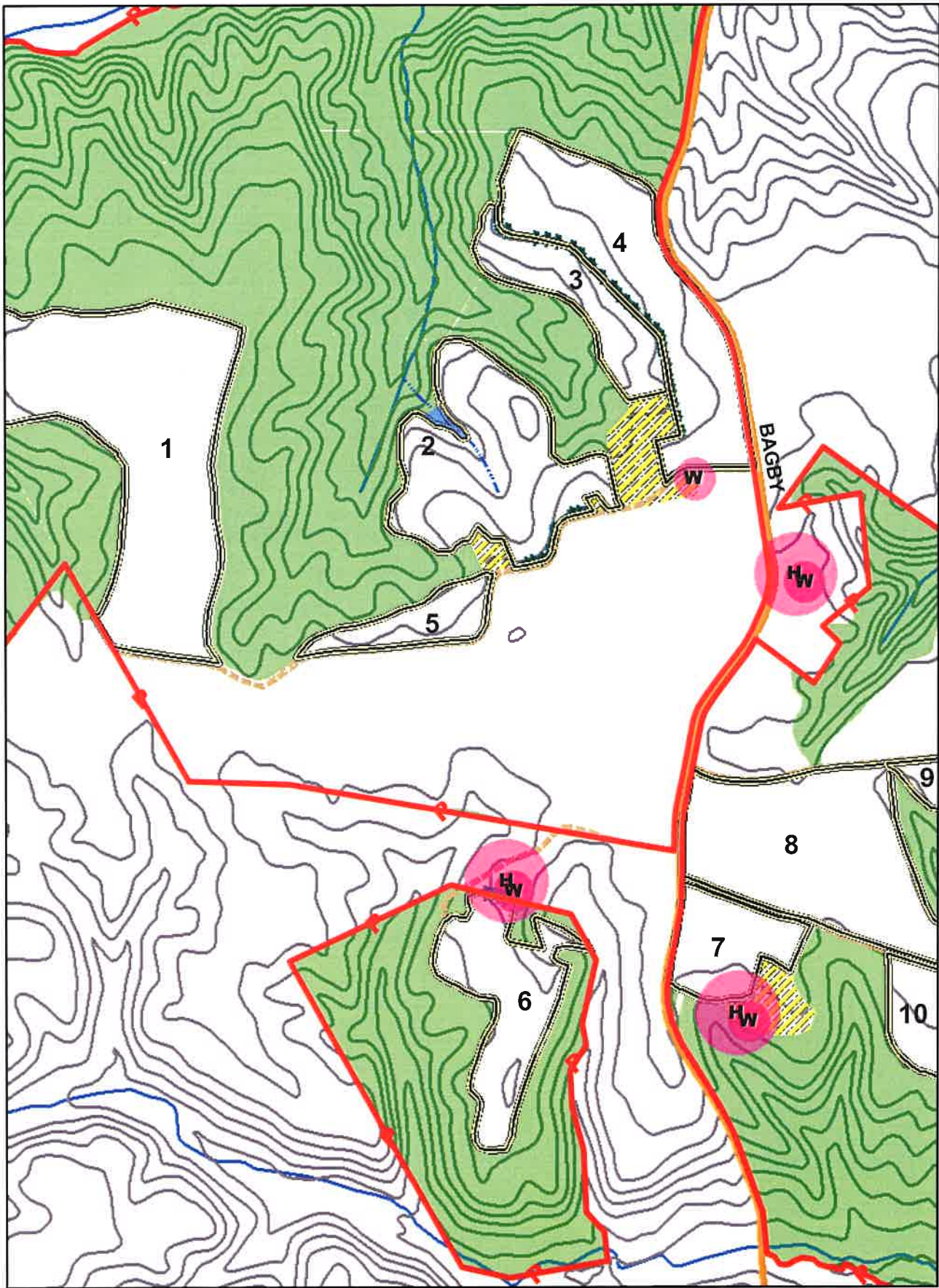


6-26-19

SITE PLAN

1 in = 660 feet

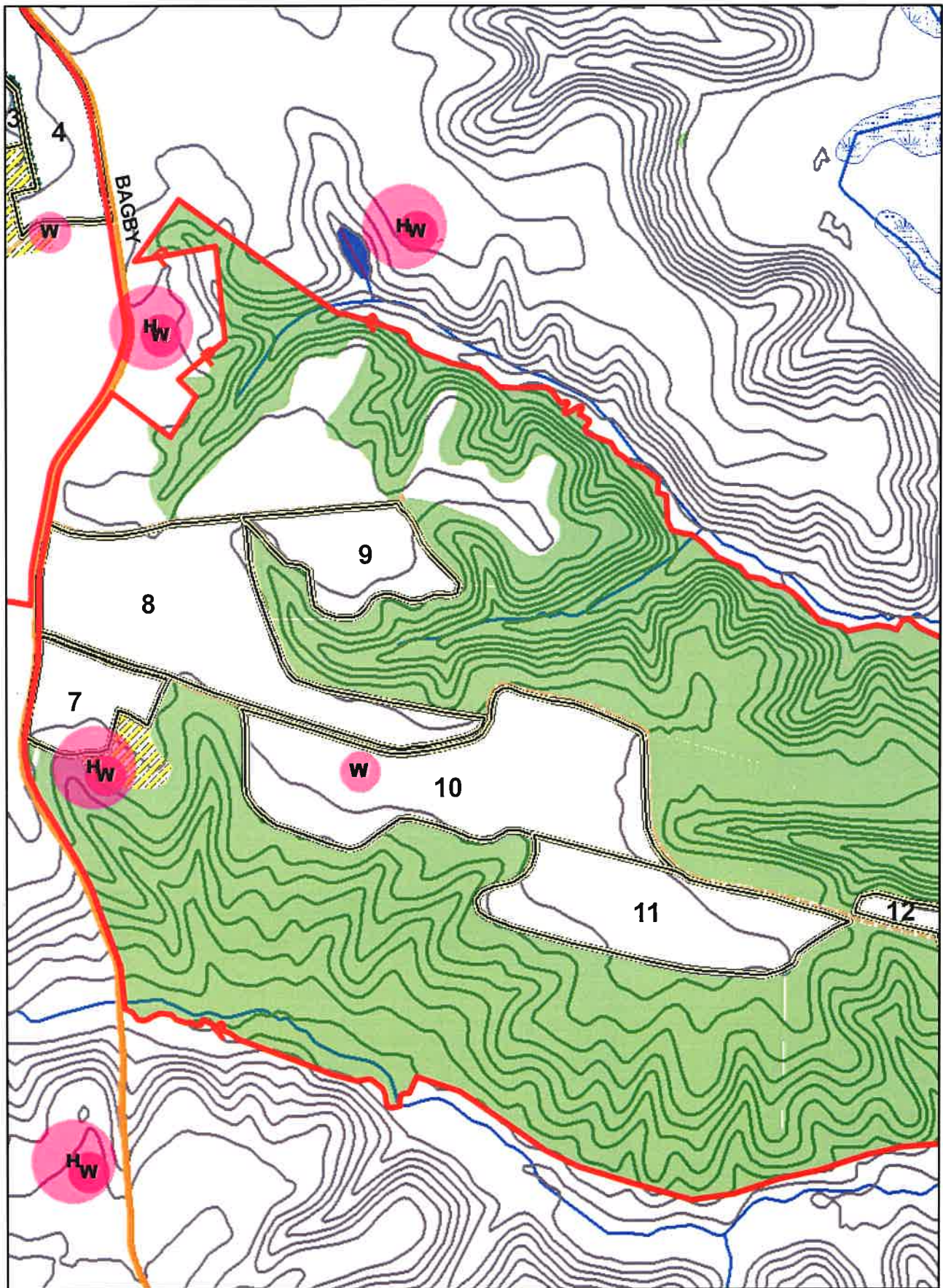




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SITE PLAN

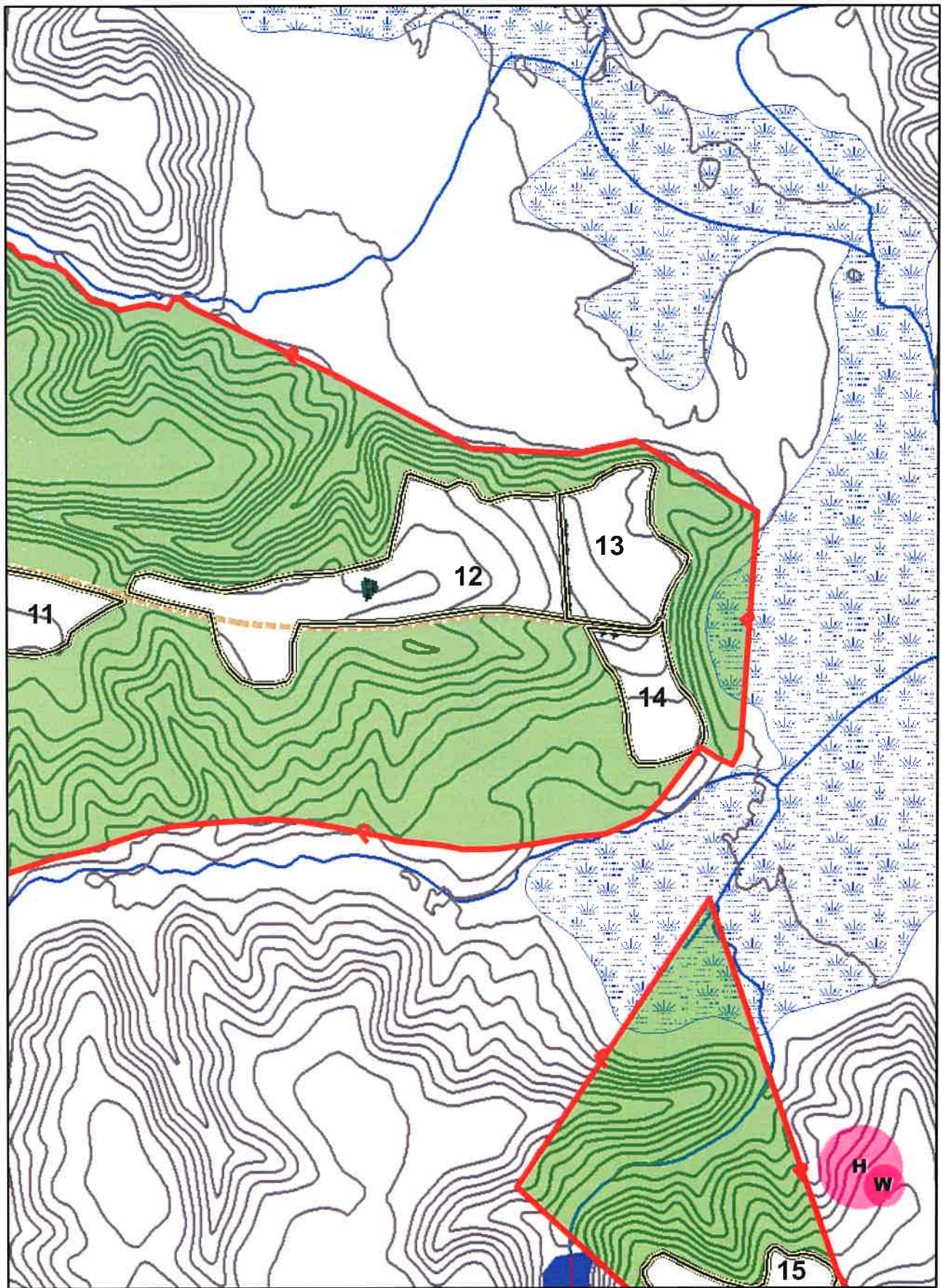
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6-26-19

SITE PLAN

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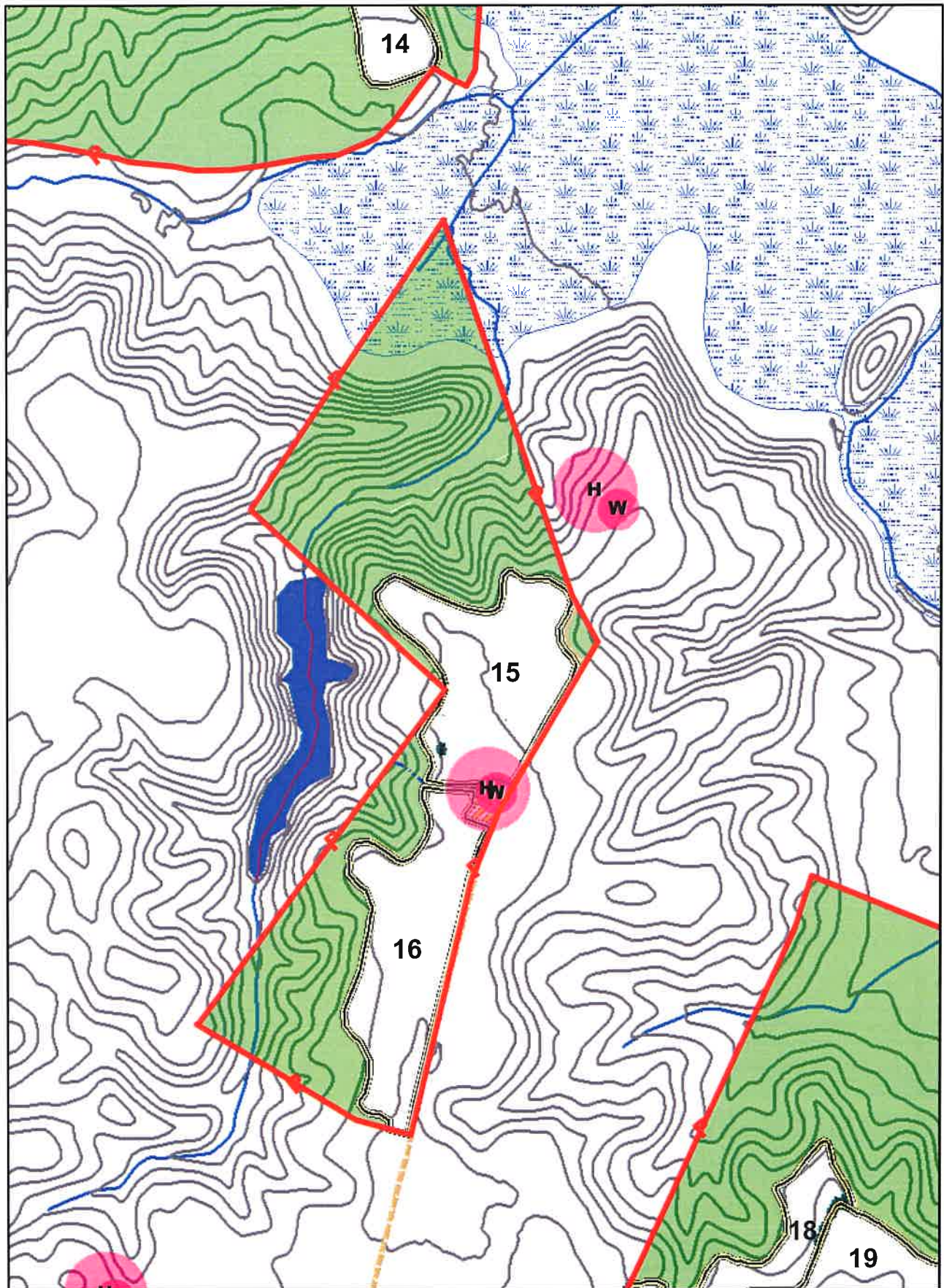


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SITE PLAN

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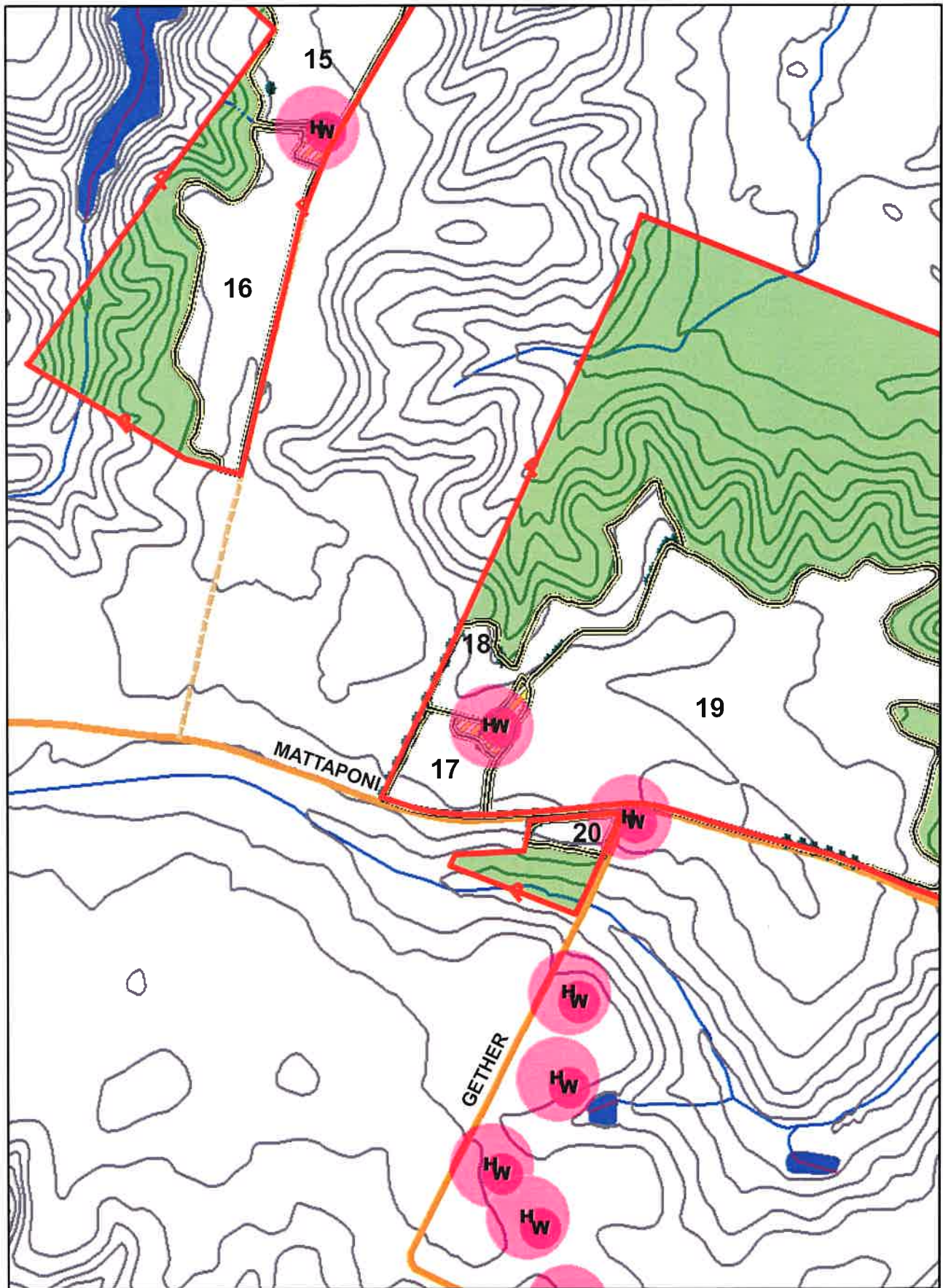




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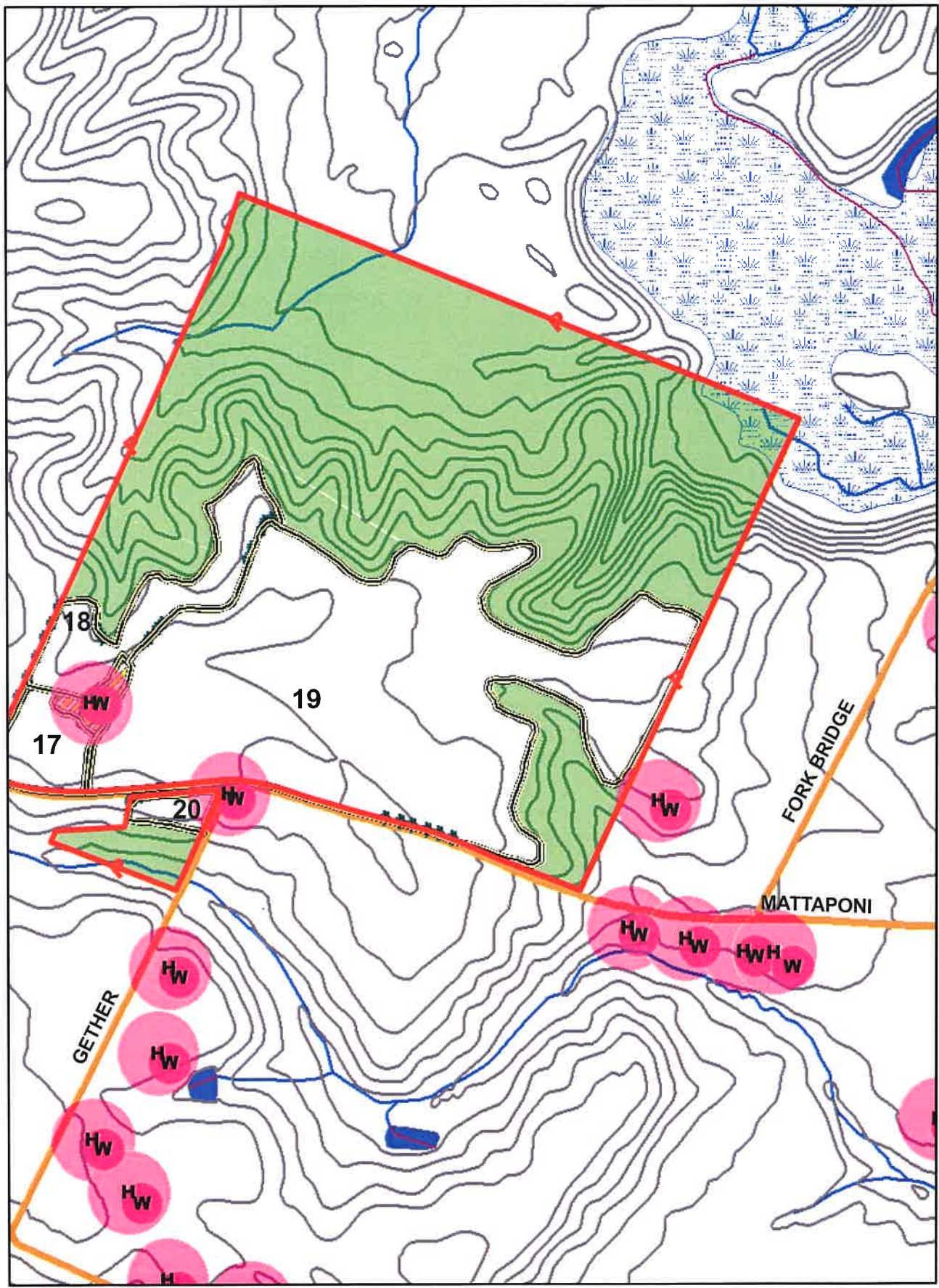
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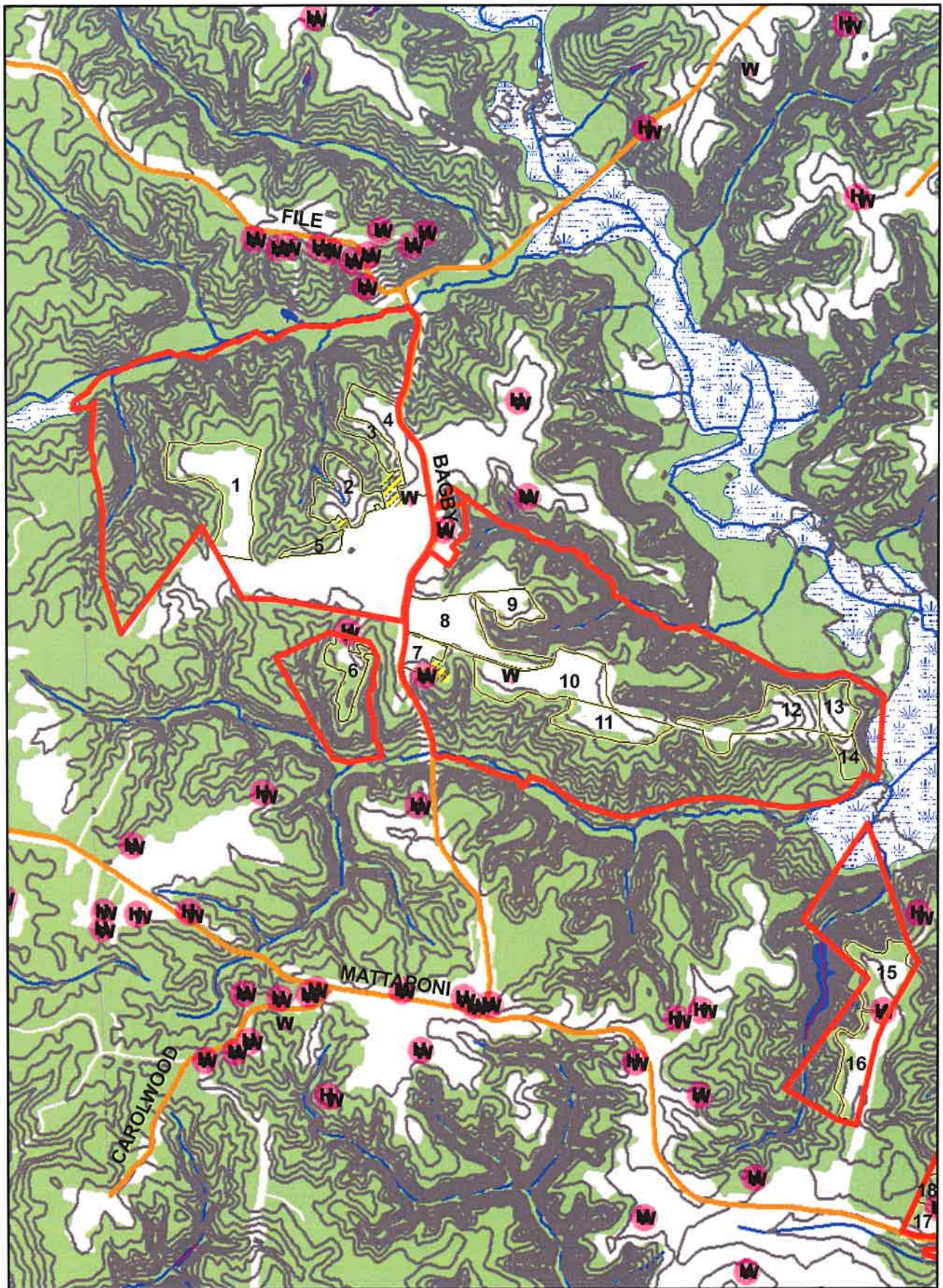
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SITE PLAN

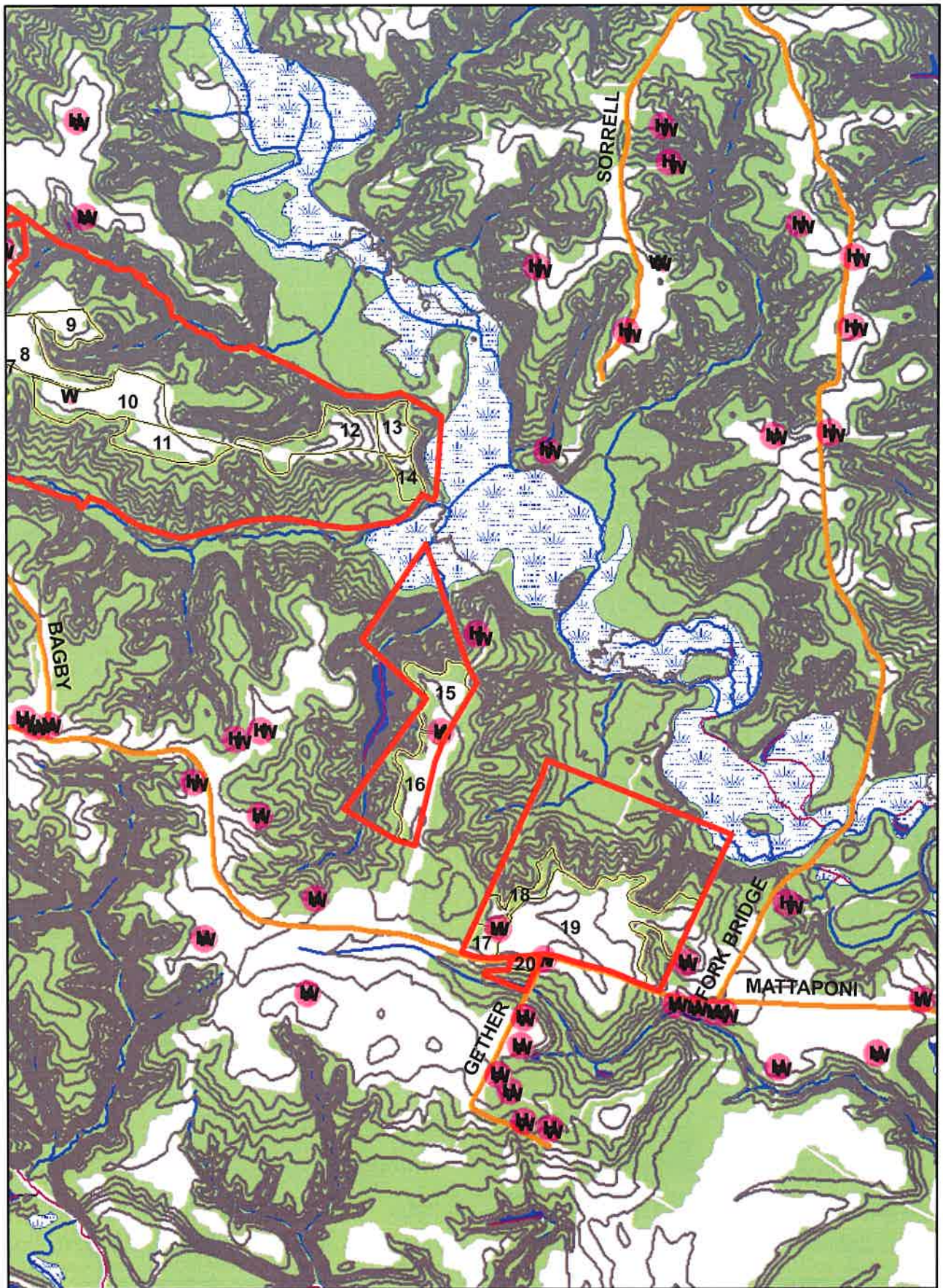
1 in = 660 feet



6-26-19

TOPOGRAPHIC MAP

1 in = 2,000 feet



6-26-19

TOPOGRAPHIC MAP

1 in = 2,000 feet